

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 17, 2005, 05:16:46 ; Search time 172 Seconds
(without alignments)
1071.175 Million cell updates/sec

Perfect score: 2529
Sequence: 1 MLHPETSPGRGHLAVLLAL.....RNRYYCQFAQHISRWGPGS 455

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1812044 seqs, 404927589 residues

Total number of hits satisfying chosen parameters: 1812044

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1500 summaries

Database : Published Applications AA:*

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2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*

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21: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*

22: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	2529	100.0	455	9	US-09-944-457-50
23	2529	100.0	455	15	US-10-429-667-50
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25	2529	100.0	455	15	US-10-677-669-50
26	2529	100.0	455	16	US-10-735-014-50
27	2529	100.0	455	16	US-10-854-947-50
28	2529	100.0	455	16	US-10-858-993-50
29	2529	100.0	455	17	US-10-901-400-50
30	2529	100.0	455	17	US-10-858-981-50
31	2529	100.0	455	17	US-10-899-671-50
32	2529	100.0	455	17	US-10-943-353-50
33	2447.5	96.8	446	9	US-09-726-643-47

34	2447.5	96.8	446	9	US-09-790-264-2
35	2447.5	96.8	446	13	US-10-042-141-47
36	2447.5	96.8	446	14	US-10-269-353-2
37	2447.5	96.8	446	15	US-10-169-395-5
38	2447.5	96.8	446	17	US-10-919-272-47
39	2447.5	96.8	446	17	US-10-900-926-2
40	2315.5	91.6	420	9	US-09-790-264-4
41	2315.5	91.6	420	14	US-10-269-353-4
42	2315.5	91.6	420	17	US-10-900-926-4
43	2241	88.6	415	15	US-10-309-290-84
44	1961.5	77.6	506	18	US-10-450-763-42516
45	1732	68.5	395	18	US-10-450-763-57962
46	1145	45.3	276	18	US-10-450-763-42515
47	735	29.1	493	18	US-10-450-763-47382
48	512	20.2	1220	18	US-10-450-763-54677
49	429.5	17.0	263	18	US-10-450-763-42517
50	280	11.1	463	14	US-10-387-495-4
51	280	11.1	463	15	US-10-429-668-9
52	280	11.1	550	15	US-10-429-668-8
53	280	11.1	625	15	US-10-429-668-7
54	273	10.8	506	15	US-10-429-668-2
55	273	10.8	593	15	US-10-429-668-3
56	272	10.8	463	9	US-09-905-291A-285
57	272	10.8	463	14	US-10-299-976-285
58	272	10.8	463	14	US-10-299-937-285
59	272	10.8	463	15	US-10-298-993-285
60	272	10.8	463	15	US-10-448-923-285
61	272	10.8	463	15	US-10-449-656-285
62	272	10.8	463	15	US-10-448-713-285
63	272	10.8	463	15	US-10-443-447-285
64	272	10.8	463	16	US-10-215-371-285
65	272	10.8	463	16	US-10-771-187-285
66	272	10.8	463	17	US-10-931-886-360
67	272	10.8	463	17	US-10-963-467-285
68	272	10.8	463	17	US-10-978-255-285
69	272	10.8	463	18	US-10-797-366-285
70	272	10.8	463	18	US-10-955-952-360
71	265	10.5	498	10	US-09-789-390-21
72	265	10.5	498	10	US-09-789-390-76
73	260.5	10.3	497	14	US-10-219-065-56
74	260.5	10.3	497	15	US-10-416-314-63
75	260.5	10.3	497	17	US-10-901-801-2
76	259.5	10.3	497	10	US-09-789-390-17
77	259.5	10.3	497	10	US-09-789-390-43
78	257.5	10.2	468	10	US-09-789-390-44
79	257.5	10.2	497	10	US-09-789-390-45
80	257.5	10.2	497	17	US-10-363-374-2
81	256.5	10.1	468	10	US-09-789-390-75
82	256.5	10.1	477	10	US-09-789-390-19
83	254.5	10.1	239	14	US-10-091-135-85
84	254.5	10.1	255	9	US-09-876-225-2
85	254.5	10.1	255	15	US-10-417-727-2
86	254.5	10.1	255	18	US-10-909-864A-2
87	254.5	10.1	257	10	US-09-800-198-88
88	254.5	10.1	258	9	US-09-808-603-110
89	254.5	10.1	258	15	US-10-058-138-96
90	254.5	10.1	258	15	US-10-058-270A-124
91	254.5	10.1	258	16	US-10-755-889-402
92	253	10.0	253	10	US-09-800-198-97
93	253	10.0	253	15	US-10-243-552-580
94	253	10.0	253	15	US-10-094-886-120
95	252	10.0	191	10	US-09-789-390-42
96	252	10.0	191	10	US-09-789-390-46
97	252	10.0	245	14	US-10-205-823-363
98	252	10.0	245	15	US-10-341-434-28
99	252	10.0	245	15	US-10-341-434-45
100	252	10.0	245	15	US-11-051-454-363
101	251	9.9	497	17	US-10-488-528-2
102	251	9.9	497	17	US-10-488-528-4
103	250	9.9	245	10	US-09-800-198-98
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106	247.5	9.8	1164	10	US-09-789-390-74

1165	241	9.5	300	9	US-09-808-602-27
1166	241	9.5	300	10	US-09-800-198-25
1167	240	9.5	188	9	US-09-808-602-109
1168	240	9.5	188	10	US-09-800-198-95
1169	237.5	9.4	431	9	US-09-808-602-113
1170	237.5	9.4	501	10	US-09-789-390-23
1171	237.5	9.4	501	10	US-09-789-390-77
1172	236.5	9.4	348	18	US-10-450-763-50135
1173	236	9.3	1268	18	US-10-698-190-24
1174	235.5	9.3	500	9	US-09-808-602-108
1175	235.5	9.3	500	9	US-09-808-602-112
1176	235.5	9.3	500	9	US-09-808-602-114
1196	235.5	9.3	500	10	US-09-800-198-94
1461	235.5	9.3	500	14	US-10-167-749-363

Sequence 27, Appl
Sequence 25, Appl
Sequence 109, App
Sequence 95, Appl
Sequence 113, Appl
Sequence 23, Appl
Sequence 77, Appl
Sequence 50135, A
Sequence 24, Appl
Sequence 108, App
Sequence 112, App
Sequence 114, App
Sequence 94, Appl
Sequence 363, App

Search completed: September 17, 2005, 05:32:28
Job time : 179 secs

GenCore version 5.1.1.6
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OM protein - protein search, using sw model

Run on: September 17, 2005, 06:47:25 ; Search time 44 Seconds
(without alignments)
771.939 Million cell updates/sec

Title: US-09-944-896-50
Perfect score: 2529
Sequence: 1 MHPETSPGRGHLLAVLLAL.....RNRVYCQAEHISRWGPGS 455

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1500 summaries

Database : Issued Patents AA:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2529	100.0	455	4	US-09-866-028-50
2	2529	100.0	455	4	US-09-944-457-50
3	272	10.8	463	4	US-09-907-794A-285
4	272	10.8	463	4	US-09-905-125A-285
5	272	10.8	463	4	US-09-902-775A-285
6	272	10.8	463	4	US-09-906-700-285
7	272	10.8	463	4	US-09-903-603A-285
8	272	10.8	463	4	US-09-904-920A-285
9	272	10.8	463	4	US-09-909-064-285
10	272	10.8	463	4	US-09-905-381A-285
11	272	10.8	463	4	US-09-906-618-285
12	267	10.6	270	3	US-08-773-368-1
13	267	10.6	270	3	US-09-199-887-1
14	259	10.2	258	4	US-09-698-781-3
15	232	9.2	219	2	US-08-773-368-3
16	232	9.2	219	3	US-09-199-887-3
17	231	9.1	266	3	US-08-773-368-4
18	231	9.1	266	3	US-09-199-887-4
19	222.5	8.8	257	4	US-09-949-016-7490
20	221	8.7	243	4	US-09-541-759-7
21	213.5	8.4	249	4	US-09-949-016-6025
22	213.5	8.4	267	4	US-09-949-016-7489
23	212	8.4	1257	1	US-08-340-428B-49
24	196	7.8	2409	6	5180808-2
25	196	7.8	2409	6	5180808-2
26	189.5	7.5	1455	3	US-08-840-062-5
27	185	7.3	151	1	US-08-614-935-28

28	185	7.3	151	3	US-09-130-287-28	Sequence 28, Appl
29	182.5	7.2	135	2	US-07-857-224B-97	Sequence 97, Appl
30	182.5	7.2	135	2	US-07-857-224B-98	Sequence 98, Appl
31	180.5	7.1	135	2	US-07-857-224B-99	Sequence 99, Appl
32	180.5	7.1	205	1	US-08-419-414-10	Sequence 10, Appl
33	180.5	7.1	205	1	US-08-614-935-6	Sequence 6, Appl
34	180.5	7.1	205	1	US-08-614-935-7	Sequence 7, Appl
35	180.5	7.1	205	3	US-09-130-287-6	Sequence 6, Appl
36	180.5	7.1	205	3	US-09-130-287-7	Sequence 7, Appl
37	178.5	7.1	1456	4	US-09-976-594-168	Sequence 168, Appl
38	178	7.0	737	4	US-09-866-028-15	Sequence 15, Appl
39	178	7.0	737	4	US-09-944-457-15	Sequence 15, Appl
40	174	6.9	111	2	US-07-857-224B-105	Sequence 105, Appl
41	172	6.8	138	2	US-07-857-224B-100	Sequence 100, Appl
42	172	6.8	138	2	US-09-257-543-13	Sequence 13, Appl
43	171	6.8	139	2	US-07-857-224B-101	Sequence 101, Appl
44	171	6.8	168	1	US-08-181-271A-45	Sequence 45, Appl
45	171	6.8	168	1	US-08-449-315-45	Sequence 45, Appl
46	171	6.8	168	1	US-08-444-803-45	Sequence 45, Appl
47	171	6.8	168	1	US-08-449-043-45	Sequence 45, Appl
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50	171	6.8	168	1	US-08-455-244-45	Sequence 45, Appl
51	171	6.8	168	1	US-08-454-876-45	Sequence 45, Appl
52	171	6.8	168	2	US-08-457-364-45	Sequence 45, Appl
53	171	6.8	168	2	US-08-456-262-45	Sequence 45, Appl
54	171	6.8	168	2	US-08-456-240-45	Sequence 45, Appl
55	171	6.8	168	2	US-08-455-736-45	Sequence 45, Appl
56	171	6.8	168	2	US-08-971-217-45	Sequence 45, Appl
57	171	6.8	168	3	US-09-350-600-45	Sequence 45, Appl
58	171	6.8	168	4	US-09-906-234-45	Sequence 45, Appl
59	169	6.7	204	1	US-08-614-935-1	Sequence 1, Appl
60	169	6.7	204	3	US-09-130-287-1	Sequence 1, Appl
61	168.5	6.7	912	5	PCT-US95-03747-2	Sequence 2, Appl
62	168.5	6.7	2321	4	US-09-230-652-2	Sequence 2, Appl
63	168	6.6	171	2	US-08-773-368-6	Sequence 6, Appl
64	168	6.6	171	3	US-09-199-887-6	Sequence 6, Appl
65	166	6.6	204	1	US-08-419-414-9	Sequence 9, Appl
66	166	6.6	204	1	US-08-614-935-2	Sequence 2, Appl
67	166	6.6	204	3	US-09-130-287-2	Sequence 2, Appl
68	166	6.6	227	4	US-09-541-759-6	Sequence 6, Appl
69	165	6.5	139	2	US-07-857-224B-102	Sequence 102, Appl
70	164.5	6.5	167	3	US-08-773-368-5	Sequence 5, Appl
71	164.5	6.5	167	3	US-09-199-887-5	Sequence 5, Appl
72	161.5	6.4	114	2	US-07-857-224B-106	Sequence 106, Appl
73	161.5	6.4	114	2	US-07-857-224B-108	Sequence 108, Appl
74	161.5	6.4	205	1	US-08-614-935-4	Sequence 4, Appl
75	161.5	6.4	205	3	US-09-130-287-4	Sequence 4, Appl
76	161.5	6.4	2523	1	US-08-185-432-18	Sequence 18, Appl
77	161.5	6.4	2523	4	US-08-893-232-3	Sequence 3, Appl
78	161.5	6.4	2523	4	US-09-121-457-3	Sequence 3, Appl
79	161	6.4	273	4	US-09-638-203-2	Sequence 2, Appl
80	159	6.3	722	3	US-08-981-352-12	Sequence 12, Appl
81	159	6.3	722	4	US-09-908-322-12	Sequence 12, Appl
82	158.5	6.3	150	1	US-08-614-935-29	Sequence 29, Appl
83	158.5	6.3	150	3	US-09-130-287-29	Sequence 29, Appl
84	158.5	6.3	728	3	US-08-981-392-2	Sequence 2, Appl
85	158.5	6.3	728	3	US-09-908-322-2	Sequence 2, Appl
86	158.5	6.3	729	3	US-08-872-855-8	Sequence 8, Appl
87	158	6.2	424	1	US-08-419-414-2	Sequence 2, Appl
88	158	6.2	720	3	US-08-872-855-4	Sequence 4, Appl
89	157	6.2	204	1	US-08-614-935-5	Sequence 5, Appl
90	157	6.2	204	3	US-09-130-287-5	Sequence 5, Appl
91	156	6.2	520	3	US-09-068-740A-3	Sequence 3, Appl
92	156	6.2	702	3	US-09-068-740A-4	Sequence 4, Appl
93	156	6.2	723	3	US-09-068-740A-9	Sequence 9, Appl
94	156	6.2	723	4	US-09-423-753-27	Sequence 27, Appl
95	156	6.2	723	4	US-09-641-612-6	Sequence 6, Appl
96	156	6.2	2703	1	US-08-185-432-19	Sequence 19, Appl
97	156	6.2	2703	4	US-08-899-232-4	Sequence 4, Appl
98	156	6.2	2703	4	US-09-121-457-4	Sequence 4, Appl
99	155	6.1	717	3	US-08-872-855-9	Sequence 9, Appl
100	154.5	6.1	114	2	US-07-857-224B-107	Sequence 107, Appl

101	154.5	6.1	141	2	US-07-857-2248-104	Sequence 104, App	174	141	5.6	659	4	US-09-423-753-3	Sequence 3, Appli
102	154.5	6.1	721	3	US-08-981-392-5	Sequence 5, Appli	175	141	5.6	685	3	US-08-872-855-2	Sequence 2, Appli
103	154.5	6.1	721	3	US-09-908-322-5	Sequence 5, Appli	176	141	5.6	685	4	US-09-423-753-25	Sequence 25, Appli
104	154	6.1	135	2	US-07-857-2248-103	Sequence 103, App	177	141	5.6	685	4	US-09-641-612-7	Sequence 7, Appli
105	154	6.1	713	3	US-08-872-855-5	Sequence 5, Appli	178	141	5.6	1157	4	US-09-949-016-9568	Sequence 9568, Ap
106	153.5	6.1	721	3	US-08-872-855-7	Sequence 7, Appli	179	141	5.6	1219	3	US-08-882-046-5	Sequence 5, Appli
107	153	6.0	138	2	US-07-857-2248-112	Sequence 112, App	180	141	5.6	1219	4	US-09-566-047-5	Sequence 5, Appli
108	153	6.0	166	1	US-08-614-935-30	Sequence 30, Appl	181	140.5	5.6	137	2	US-07-857-2248-111	Sequence 111, App
109	153	6.0	166	3	US-09-130-287-30	Sequence 30, Appl	182	140.5	5.6	830	3	US-08-872-855-11	Sequence 11, Appl
110	153	6.0	374	4	US-09-489-847-166	Sequence 166, App	183	139.5	5.5	1065	2	US-08-400-159-8	Sequence 8, Appli
111	152.5	6.0	134	4	US-09-621-976-3902	Sequence 3902, Ap	184	138.5	5.5	1148	3	US-08-882-046-4	Sequence 4, Appli
112	151	6.0	260	4	US-09-638-203-3	Sequence 3, Appli	185	138.5	5.5	1148	4	US-09-566-047-4	Sequence 4, Appli
113	150.5	6.0	1193	2	US-08-400-159-10	Sequence 10, Appl	186	138	5.5	202	4	US-10-000-489-62	Sequence 62, Appli
114	150.5	6.0	1193	3	US-08-611-729A-10	Sequence 10, Appl	187	137.5	5.4	272	4	US-09-949-016-9961	Sequence 9961, Ap
115	150.5	6.0	1193	4	US-09-195-524-10	Sequence 10, Appl	188	137.5	5.4	287	3	US-09-111-470-6	Sequence 6, Appli
116	150.5	6.0	2254	4	US-09-949-016-9270	Sequence 9270, Ap	189	137.5	5.4	287	4	US-09-862-802A-6	Sequence 6, Appli
117	150	5.9	2471	1	US-08-185-432-16	Sequence 16, Appl	190	137.5	5.4	454	1	US-07-930-686-10	Sequence 10, Appl
118	150	5.9	2471	1	US-08-083-590A-19	Sequence 19, Appl	191	137.5	5.4	454	2	US-08-460-998-10	Sequence 10, Appl
119	150	5.9	2471	3	US-08-532-384-19	Sequence 19, Appl	192	137.5	5.4	1055	3	US-09-214-278-2	Sequence 2, Appli
120	150	5.9	2471	4	US-08-899-232-1	Sequence 1, Appli	193	137.5	5.4	1055	4	US-09-855-722-2	Sequence 2, Appli
121	150	5.9	2471	4	US-09-121-457-1	Sequence 1, Appli	194	137.5	5.4	1212	3	US-09-214-278-3	Sequence 3, Appli
122	149.5	5.9	382	4	US-09-907-794A-137	Sequence 137, App	195	137.5	5.4	1212	4	US-09-855-722-3	Sequence 3, Appli
123	149.5	5.9	382	4	US-09-905-125A-137	Sequence 137, App	196	137.5	5.4	1238	3	US-09-214-278-5	Sequence 5, Appli
124	149.5	5.9	382	4	US-09-902-775A-137	Sequence 137, App	197	137.5	5.4	1238	4	US-09-855-722-5	Sequence 5, Appli
125	149.5	5.9	382	4	US-09-906-700-137	Sequence 137, App	198	137.5	5.4	1257	3	US-08-611-729A-8	Sequence 8, Appli
126	149.5	5.9	382	4	US-09-903-603A-137	Sequence 137, App	199	137.5	5.4	1257	4	US-09-195-524-8	Sequence 8, Appli
127	149.5	5.9	382	4	US-09-904-920A-137	Sequence 137, App	200	137	5.4	253	4	US-09-541-759-2	Sequence 2, Appli
128	149.5	5.9	382	4	US-09-909-064-137	Sequence 137, App	201	136	5.4	139	4	US-09-535-521-11	Sequence 11, Appl
129	149.5	5.9	382	4	US-09-905-381A-137	Sequence 137, App	202	136	5.4	141	4	US-09-535-521-14	Sequence 14, Appl
130	149.5	5.9	382	4	US-09-906-618-137	Sequence 137, App	203	136	5.4	187	4	US-09-535-521-17	Sequence 17, Appl
131	148.5	5.9	129	3	US-08-722-126A-10	Sequence 10, Appl	204	136	5.4	208	4	US-09-535-521-20	Sequence 20, Appl
132	148.5	5.9	129	5	PCT-US95-04258-10	Sequence 10, Appl	205	136	5.4	292	4	US-09-535-521-2	Sequence 2, Appli
133	148	5.9	192	4	US-09-541-759-5	Sequence 5, Appli	206	136	5.4	292	4	US-09-535-521-5	Sequence 5, Appli
134	146.5	5.8	1479	3	US-08-840-062-2	Sequence 2, Appli	207	136	5.4	1479	3	US-08-840-062-4	Sequence 4, Appli
135	146	5.8	1010	3	US-08-882-046-7	Sequence 7, Appli	208	135.5	5.4	114	6	5514582-14	Patent No. 5514582
136	146	5.8	1010	4	US-09-566-047-7	Sequence 7, Appli	209	135.5	5.4	114	6	5514582-14	Patent No. 5514582
137	146	5.8	1036	3	US-09-068-740A-6	Sequence 6, Appli	210	135.5	5.4	833	1	US-08-264-534-6	Sequence 6, Appli
138	146	5.8	1067	4	US-09-579-536C-18	Sequence 18, Appl	211	135.5	5.4	833	1	US-08-083-590A-2	Sequence 2, Appli
139	146	5.8	1187	3	US-09-068-740A-7	Sequence 7, Appli	212	135.5	5.4	833	1	US-08-465-500-6	Sequence 6, Appli
140	146	5.8	1208	4	US-09-199-865-1	Sequence 1, Appli	213	135.5	5.4	833	2	US-08-346-126-6	Sequence 6, Appli
141	146	5.8	1208	4	US-10-213-329-1	Sequence 1, Appli	214	135.5	5.4	833	2	US-08-346-128-6	Sequence 6, Appli
142	146	5.8	1218	2	US-08-400-159-6	Sequence 6, Appli	215	135.5	5.4	833	3	US-08-532-384-2	Sequence 2, Appli
143	146	5.8	1218	3	US-08-611-729A-6	Sequence 6, Appli	216	135.5	5.4	833	3	US-08-893-828-6	Sequence 6, Appli
144	146	5.8	1218	3	US-08-882-046-2	Sequence 2, Appli	217	135	5.3	1525	3	US-09-191-647-2	Sequence 2, Appli
145	146	5.8	1218	3	US-09-214-278-7	Sequence 7, Appli	218	135	5.3	1525	3	US-09-540-245A-2	Sequence 2, Appli
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147	146	5.8	1218	4	US-09-855-722-7	Sequence 7, Appli	220	134.5	5.3	704	4	US-09-590-656-2	Sequence 2, Appli
148	146	5.8	1218	4	US-09-566-047-2	Sequence 2, Appli	221	134.5	5.3	977	4	US-09-733-764-2	Sequence 2, Appli
149	146	5.8	1218	4	US-09-917-254-85	Sequence 85, Appl	222	134.5	5.3	704	4	US-09-590-656-1	Sequence 1, Appli
150	146	5.8	1218	4	US-09-195-524-6	Sequence 6, Appli	223	134.5	5.3	977	4	US-09-733-764-1	Sequence 1, Appli
151	146	5.8	1218	4	US-09-579-536C-1	Sequence 1, Appli	224	134.5	5.3	1124	1	US-08-323-474-2	Sequence 2, Appli
152	146	5.8	1218	4	US-09-949-016-5902	Sequence 5902, Ap	225	134.5	5.3	1124	4	US-09-949-016-5946	Sequence 5946, Ap
153	146	5.8	1254	4	US-09-949-016-10297	Sequence 10297, A	226	134.5	5.3	1124	5	PCT-US93-06093-2	Sequence 2, Appli
154	146	5.8	2556	1	US-08-185-432-17	Sequence 17, Appl	227	134.5	5.3	1480	3	US-09-191-647-7	Sequence 7, Appli
155	146	5.8	2556	4	US-08-899-232-2	Sequence 2, Appli	228	134.5	5.3	1480	3	US-09-540-245A-7	Sequence 7, Appli
156	146	5.8	2556	4	US-09-121-457-2	Sequence 2, Appli	229	134.5	5.3	1480	3	US-09-540-153-7	Sequence 7, Appli
157	144.5	5.7	1964	3	US-09-467-997-1	Sequence 1, Appli	230	134.5	5.3	1480	5	PCT-US91-09055-2	Sequence 2, Appli
158	144	5.7	1139	1	US-08-537-210A-4	Sequence 4, Appli	231	133.5	5.3	321	4	US-09-541-759-1	Sequence 1, Appli
159	144	5.7	1139	3	US-09-113-825-4	Sequence 4, Appli	232	133.5	5.3	321	4	US-09-270-767-33762	Sequence 33762, A
160	144	5.7	2556	1	US-08-083-590A-20	Sequence 20, Appl	233	133.5	5.3	321	4	US-09-270-767-48979	Sequence 48979, A
161	144	5.7	2556	3	US-08-532-384-20	Sequence 20, Appl	234	133.5	5.3	328	4	US-09-065-040-8	Sequence 8, Appli
162	143.5	5.7	440	1	US-07-930-686-12	Sequence 12, Appl	235	133.5	5.3	832	3	US-08-981-392-6	Sequence 6, Appli
163	143.5	5.7	440	2	US-08-460-998-12	Sequence 12, Appl	236	133.5	5.3	832	4	US-09-908-322-6	Sequence 6, Appli
164	143.5	5.7	1248	3	US-08-882-046-6	Sequence 6, Appli	237	133	5.3	115	6	5514582-18	Patent No. 5514582
165	143.5	5.7	1248	4	US-09-566-047-6	Sequence 6, Appli	238	133	5.3	115	6	5514582-18	Patent No. 5514582
166	142.5	5.6	1480	3	US-09-182-024A-5	Sequence 5, Appli	239	132.5	5.2	148	4	US-09-949-016-6802	Sequence 6802, Ap
167	142	5.6	203	1	US-08-419-414-8	Sequence 8, Appli	240	132.5	5.2	179	1	US-08-650-995-9	Sequence 9, Appli
168	142	5.6	203	1	US-08-614-935-3	Sequence 3, Appli	241	132.5	5.2	179	2	US-08-650-578-2	Sequence 2, Appli
169	142	5.6	203	3	US-09-130-287-3	Sequence 3, Appli	242	132.5	5.2	179	2	US-08-688-342-3	Sequence 3, Appli
170	141	5.6	202	1	US-08-469-486-56	Sequence 56, Appl	243	132.5	5.2	179	3	US-09-113-788-3	Sequence 3, Appli
171	141	5.6	202	2	US-08-469-658-56	Sequence 56, Appl	244	132.5	5.2	179	3	US-09-113-789-9	Sequence 9, Appli
172	141	5.6	233	4	US-09-216-393B-110	Sequence 110, App	245	132.5	5.2	179	4	US-09-919-039-130	Sequence 130, App
173	141	5.6	500	4	US-09-423-753-2	Sequence 2, Appli	246	132.5	5.2	179	4	US-09-949-016-6200	Sequence 6200, Ap

247	132.5	5.2	578	3	US-08-981-392-13	Sequence 13, Appl	320	127.5	5.0	1350	4	US-09-893-238-17	Sequence 17, Appl
248	132.5	5.2	578	4	US-09-908-322-13	Sequence 13, Appl	321	127.5	5.0	1429	3	US-09-245-041-130	Sequence 130, Appl
249	132	5.2	128	4	US-09-535-521-8	Sequence 8, Appl	322	127.5	5.0	1429	3	US-09-358-055B-131	Sequence 131, Appl
250	131.5	5.2	1101	2	US-08-469-537A-96	Sequence 96, Appl	323	127.5	5.0	2787	3	US-09-245-041-15	Sequence 15, Appl
251	131.5	5.2	2199	4	US-08-793-273C-2	Sequence 2, Appl	324	127.5	5.0	2787	4	US-09-358-055B-15	Sequence 15, Appl
252	131.5	5.2	2199	5	PCT-US95-11694-2	Sequence 2, Appl	325	127.5	5.0	2787	4	US-09-893-238-15	Sequence 15, Appl
253	131	5.2	383	1	US-08-597-545-2	Sequence 2, Appl	326	127	5.0	205	1	US-08-450-944-5	Sequence 5, Appl
254	131	5.2	383	1	US-08-457-135-2	Sequence 2, Appl	327	127	5.0	205	1	PCT-US96-07709-5	Sequence 5, Appl
255	131	5.2	721	4	US-09-949-016-11031	Sequence 11031, A	328	127	5.0	220	4	US-09-541-759-3	Sequence 3, Appl
256	131	5.2	1523	3	US-09-182-024A-2	Sequence 2, Appl	329	127	5.0	221	1	US-08-450-944-2	Sequence 2, Appl
257	131	5.2	1529	4	US-09-312-283C-396	Sequence 396, Appl	330	127	5.0	221	5	PCT-US96-07709-2	Sequence 2, Appl
258	131	5.2	1799	4	US-09-845-583A-6	Sequence 6, Appl	331	127	5.0	292	4	US-08-248-126A-7	Sequence 7, Appl
259	131	5.2	3594	4	US-09-911-842A-4	Sequence 4, Appl	332	126.5	5.0	125	3	US-08-722-126A-7	Sequence 7, Appl
260	131	5.2	3523	4	US-09-341-461-2	Sequence 2, Appl	333	126.5	5.0	125	5	PCT-US95-04258-7	Sequence 7, Appl
261	130.5	5.2	123	4	US-09-535-521-25	Sequence 25, Appl	334	126.5	5.0	289	1	US-08-365-103B-4	Sequence 13, Appl
262	130.5	5.2	1064	1	US-08-537-210A-3	Sequence 3, Appl	335	126.5	5.0	289	4	US-08-862-802A-13	Sequence 6, Appl
263	130.5	5.2	1064	3	US-09-113-825-3	Sequence 3, Appl	336	126.5	5.0	300	1	US-08-365-103B-6	Sequence 2, Appl
264	130.5	5.2	1118	1	US-07-934-393B-2	Sequence 2, Appl	337	126.5	5.0	327	1	US-08-365-103B-2	Sequence 2, Appl
265	130.5	5.2	1118	2	US-08-278-089A-2	Sequence 2, Appl	338	126.5	5.0	1404	2	US-08-400-159-2	Sequence 2, Appl
266	130.5	5.2	1122	1	US-08-838-957A-6	Sequence 6, Appl	339	126.5	5.0	1404	3	US-08-611-729A-2	Sequence 2, Appl
267	130.5	5.2	1122	2	US-08-838-957A-6	Sequence 6, Appl	340	126.5	5.0	1404	4	US-08-135-524-2	Sequence 2, Appl
268	130.5	5.2	2200	4	US-09-796-575-2	Sequence 2, Appl	341	126.5	5.0	4391	4	US-10-086-011A-2	Sequence 2, Appl
269	130	5.1	316	3	US-09-111-470-4	Sequence 4, Appl	342	126	5.0	219	4	US-09-907-794A-377	Sequence 377, Appl
270	130	5.1	316	4	US-09-862-802A-4	Sequence 4, Appl	343	126	5.0	219	4	US-09-905-125A-377	Sequence 377, Appl
271	130	5.1	125	2	US-07-857-224B-114	Sequence 114, Appl	344	126	5.0	219	4	US-09-902-775A-377	Sequence 377, Appl
272	129.5	5.1	137	2	US-07-857-224B-110	Sequence 110, Appl	345	126	5.0	219	4	US-09-906-700-377	Sequence 377, Appl
273	129.5	5.1	328	4	US-09-065-040-12	Sequence 12, Appl	346	126	5.0	219	4	US-09-903-603A-377	Sequence 377, Appl
274	129.5	5.1	379	4	US-09-907-794A-4	Sequence 4, Appl	347	126	5.0	219	4	US-09-904-920A-377	Sequence 377, Appl
275	129.5	5.1	379	4	US-09-905-125A-4	Sequence 4, Appl	348	126	5.0	219	4	US-09-909-064-377	Sequence 377, Appl
276	129.5	5.1	379	4	US-09-902-775A-4	Sequence 4, Appl	349	126	5.0	219	4	US-09-905-381A-377	Sequence 377, Appl
277	129.5	5.1	379	4	US-09-906-618-4	Sequence 4, Appl	350	126	5.0	219	4	US-09-906-618-377	Sequence 377, Appl
278	129.5	5.1	379	4	US-09-906-700-4	Sequence 4, Appl	351	126	5.0	583	4	US-09-641-612-2	Sequence 2, Appl
279	129.5	5.1	379	4	US-09-903-603A-4	Sequence 4, Appl	352	126	5.0	1487	3	US-08-840-062-7	Sequence 7, Appl
280	129.5	5.1	379	4	US-09-904-920A-4	Sequence 4, Appl	353	125	4.9	1463	1	US-08-220-603A-11	Sequence 11, Appl
281	129.5	5.1	379	4	US-09-909-064-4	Sequence 4, Appl	354	124.5	4.9	1138	2	US-08-323-474-8	Sequence 8, Appl
282	129.5	5.1	379	4	US-09-905-381A-4	Sequence 4, Appl	355	124.5	4.9	1138	2	US-08-469-537A-98	Sequence 98, Appl
283	129.5	5.1	385	1	US-08-597-545-1	Sequence 1, Appl	356	124.5	4.9	1138	2	US-08-220-240A-5	Sequence 5, Appl
284	129.5	5.1	385	1	US-08-457-135-1	Sequence 1, Appl	357	124.5	4.9	1150	4	US-09-949-016-7769	Sequence 7769, Appl
285	129.5	5.1	385	1	US-09-142-027A-10	Sequence 10, Appl	358	124.5	4.9	4544	2	US-08-469-658-52	Sequence 52, Appl
286	129.5	5.1	1810	4	US-08-793-273C-4	Sequence 4, Appl	359	124.5	4.9	177	1	US-08-181-271A-46	Sequence 46, Appl
287	129.5	5.1	1810	5	PCT-US95-11684-4	Sequence 4, Appl	360	124	4.9	177	1	US-08-449-315-46	Sequence 46, Appl
288	129.5	5.1	111	6	5514582-11	Patent No. 5514582	361	124	4.9	177	1	US-08-449-803-46	Sequence 46, Appl
289	129	5.1	111	6	5514582-11	Patent No. 5514582	362	124	4.9	177	1	US-08-449-043-46	Sequence 46, Appl
290	129	5.1	111	6	5514582-11	Patent No. 5514582	363	124	4.9	177	1	US-08-456-265A-46	Sequence 46, Appl
291	129	5.1	299	3	US-09-188-930-192	Sequence 192, Appl	364	124	4.9	177	1	US-08-455-416-46	Sequence 46, Appl
292	129	5.1	299	3	US-09-188-930-332	Sequence 332, Appl	365	124	4.9	177	1	US-08-455-244-46	Sequence 46, Appl
293	129	5.1	299	4	US-09-312-283C-192	Sequence 192, Appl	366	124	4.9	177	1	US-08-454-876-46	Sequence 46, Appl
294	129	5.1	299	4	US-09-312-283C-332	Sequence 332, Appl	367	124	4.9	177	1	US-08-457-364-46	Sequence 46, Appl
295	129	5.1	1135	2	US-08-469-537A-97	Sequence 97, Appl	368	124	4.9	177	2	US-08-456-262-46	Sequence 46, Appl
296	128.5	5.1	114	6	5514582-13	Patent No. 5514582	369	124	4.9	177	2	US-08-456-240-46	Sequence 46, Appl
297	128.5	5.1	114	6	5514582-13	Patent No. 5514582	370	124	4.9	177	2	US-08-455-736-46	Sequence 46, Appl
298	128.5	5.1	220	4	US-09-541-759-4	Sequence 4, Appl	371	124	4.9	177	2	US-08-455-217-46	Sequence 46, Appl
299	128.5	5.1	1576	4	US-09-562-702A-24	Sequence 24, Appl	372	124	4.9	177	2	US-09-350-600-46	Sequence 46, Appl
300	128.5	5.1	1576	4	US-09-561-818A-24	Sequence 24, Appl	373	124	4.9	177	3	US-09-906-234-46	Sequence 46, Appl
301	128.5	5.1	1584	4	US-09-562-702A-28	Sequence 28, Appl	374	124	4.9	114	6	5514582-8	Patent No. 5514582
302	128.5	5.1	1609	4	US-09-562-702A-22	Sequence 22, Appl	375	123.5	4.9	114	6	5514582-8	Patent No. 5514582
303	128.5	5.1	1609	4	US-09-561-818A-22	Sequence 22, Appl	376	123.5	4.9	642	3	US-08-872-855-10	Sequence 10, Appl
304	128.5	5.1	1609	4	US-09-538-092-900	Sequence 900, Appl	377	123.5	4.9	1068	3	US-08-537-210A-2	Sequence 2, Appl
305	128.5	5.1	1617	4	US-09-562-702A-26	Sequence 26, Appl	378	123.5	4.9	1068	3	US-09-113-825-2	Sequence 2, Appl
306	128.5	5.1	3075	2	US-08-460-309-5	Sequence 5, Appl	379	123.5	4.9	1358	1	US-08-404-665-4	Sequence 4, Appl
307	128.5	5.1	3075	2	US-08-125-077-5	Sequence 5, Appl	380	123.5	4.9	1358	1	US-08-404-671-4	Sequence 4, Appl
308	128.5	5.1	3571	4	US-09-911-842A-2	Sequence 2, Appl	381	123.5	4.9	1358	1	US-08-404-781-4	Sequence 4, Appl
309	128.5	5.1	1572	4	US-09-562-702A-32	Sequence 32, Appl	382	123.5	4.9	124	2	US-07-857-224B-113	Sequence 113, Appl
310	128	5.1	1572	4	US-09-561-818A-32	Sequence 32, Appl	383	123	4.9	146	4	US-09-949-016-10685	Sequence 10685, A
311	128	5.1	1605	4	US-09-562-702A-30	Sequence 30, Appl	384	123	4.9	166	4	US-09-949-016-6286	Sequence 6286, A
312	128	5.1	1605	4	US-09-561-818A-26	Sequence 26, Appl	385	123	4.9	204	5	PCT-US96-07709-33	Sequence 33, Appl
313	127.5	5.0	197	4	US-09-602-877A-99	Sequence 99, Appl	386	123	4.9	220	5	PCT-US96-07709-25	Sequence 25, Appl
314	127.5	5.0	1193	4	US-09-949-016-10498	Sequence 10498, A	387	123	4.9	240	5	PCT-US96-07709-30	Sequence 30, Appl
315	127.5	5.0	1198	3	US-09-245-041-131	Sequence 131, Appl	388	123	4.9	678	1	US-08-282-141-2	Sequence 2, Appl
316	127.5	5.0	1198	3	US-09-794-236-3	Sequence 3, Appl	389	123	4.9	678	1	US-08-435-434-2	Sequence 2, Appl
317	127.5	5.0	1198	4	US-09-358-055B-132	Sequence 132, Appl	390	123	4.9	678	1	US-08-435-436-2	Sequence 2, Appl
318	127.5	5.0	1350	3	US-09-245-041-17	Sequence 17, Appl	391	123	4.9	678	1	US-08-438-863-2	Sequence 2, Appl
319	127.5	5.0	1350	4	US-09-358-055B-17	Sequence 17, Appl	392	123	4.9	678	2		

393	123	4.9	678	2	US-08-438-864-2	Sequence 2, Appli	466	113.5	4.5	215	1	US-08-312-870-5	Sequence 5, Appli
394	123	4.9	678	3	US-08-438-862-2	Sequence 2, Appli	467	113.5	4.5	446	1	US-08-307-444A-5	Sequence 5, Appli
395	123	4.9	678	3	US-08-628-747-2	Sequence 2, Appli	468	113.5	4.5	446	1	US-08-587-389-5	Sequence 5, Appli
396	123	4.9	678	3	US-08-402-253-2	Sequence 2, Appli	469	113.5	4.5	456	1	US-08-307-444A-3	Sequence 3, Appli
397	123	4.9	678	3	US-08-443-866B-2	Sequence 2, Appli	470	113.5	4.5	456	1	US-08-307-444A-4	Sequence 3, Appli
398	123	4.9	1935	3	US-09-949-016-10403	Sequence 10403, A	471	113.5	4.5	456	1	US-08-587-389-3	Sequence 4, Appli
399	122.5	4.8	329	4	US-09-248-796A-15096	Sequence 15096, A	472	113.5	4.5	456	1	US-08-587-389-4	Sequence 4, Appli
400	122.5	4.8	383	4	US-09-142-027A-12	Sequence 12, Appli	473	113.5	4.5	475	1	US-08-307-444A-1	Sequence 1, Appli
401	122.5	4.8	585	4	US-09-641-612-5	Sequence 5, Appli	474	113.5	4.5	475	1	US-08-307-444A-2	Sequence 1, Appli
402	122.5	4.8	1015	1	US-08-537-210A-1	Sequence 1, Appli	475	113.5	4.5	475	1	US-08-587-389-1	Sequence 2, Appli
403	122.5	4.8	1015	3	US-09-113-825-1	Sequence 1, Appli	476	113.5	4.5	475	1	US-08-587-389-2	Sequence 2, Appli
404	122	4.8	1449	3	US-08-840-062-6	Sequence 6, Appli	477	113.5	4.5	476	1	US-08-014-723-1	Sequence 2, Appli
405	122	4.8	1723	4	US-09-194-612A-31	Sequence 31, Appli	478	113.5	4.5	476	1	US-08-014-723-2	Sequence 2, Appli
406	121.5	4.8	273	3	US-09-111-470-10	Sequence 10, Appli	479	113.5	4.5	476	1	US-08-014-723-18	Sequence 18, Appli
407	121.5	4.8	273	4	US-09-862-802A-10	Sequence 10, Appli	480	113.5	4.5	476	1	US-08-110-011A-1	Sequence 1, Appli
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409	121.5	4.8	292	2	US-09-113-788-4	Sequence 4, Appli	482	113.5	4.5	476	1	US-08-110-011A-18	Sequence 18, Appli
410	121.5	4.8	292	4	US-09-862-802A-12	Sequence 12, Appli	483	113.5	4.5	494	1	US-08-014-723-14	Sequence 14, Appli
411	121.5	4.8	735	3	US-09-191-647-9	Sequence 9, Appli	484	113.5	4.5	494	1	US-08-014-723-16	Sequence 16, Appli
412	121.5	4.8	735	3	US-09-540-245A-9	Sequence 9, Appli	485	113.5	4.5	494	1	US-08-110-011A-14	Sequence 14, Appli
413	121.5	4.8	735	3	US-09-540-153-9	Sequence 9, Appli	486	113.5	4.5	494	1	US-08-110-011A-16	Sequence 16, Appli
414	121.5	4.8	2871	4	US-09-538-092-1076	Sequence 1076, Ap	487	113.5	4.5	497	1	US-08-312-870-3	Sequence 3, Appli
415	121	4.8	166	2	US-08-729-103-4	Sequence 4, Appli	488	113.5	4.5	497	4	US-09-331-793-4	Sequence 4, Appli
416	121	4.8	174	4	US-09-949-016-10686	Sequence 10686, A	489	113.5	4.5	498	2	US-08-733-564-2	Sequence 2, Appli
417	121	4.8	243	3	US-09-191-647-14	Sequence 14, Appli	490	113.5	4.5	516	4	US-09-509-994-1	Sequence 1, Appli
418	121	4.8	243	3	US-09-540-245A-14	Sequence 14, Appli	491	113.5	4.5	516	4	US-09-509-994-2	Sequence 2, Appli
419	121	4.8	243	3	US-09-540-153-14	Sequence 14, Appli	492	113.5	4.5	575	1	US-08-261-206A-59	Sequence 59, Appli
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422	119.5	4.7	114	6	5514582-10	Patent No. 5514582	495	113.5	4.5	575	4	US-10-438-648-2	Sequence 2, Appli
423	119.5	4.7	114	6	5514582-10	Patent No. 5514582	496	113.5	4.5	575	6	5466668-6	Patent No. 5466668
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431	118.5	4.7	1260	4	US-09-949-016-7517	Sequence 7517, Ap	504	112.5	4.4	810	3	US-09-055-699-34	Sequence 34, Appli
432	118.5	4.7	3070	4	US-09-961-403-7	Sequence 7, Appli	505	112.5	4.4	810	3	US-09-273-565-34	Sequence 34, Appli
433	118.5	4.7	3084	4	US-09-562-702A-12	Sequence 12, Appli	506	112.5	4.4	810	3	US-09-565-538-34	Sequence 34, Appli
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439	118.5	4.7	3110	4	US-09-561-709B-7	Sequence 7, Appli	512	112	4.4	165	4	US-08-709-662-7	Sequence 7, Appli
440	118.5	4.7	3110	4	US-09-917-254-86	Sequence 86, Appli	513	112	4.4	192	3	US-09-148-545-177	Sequence 177, App
441	118.5	4.7	3110	4	US-09-949-016-5937	Sequence 5937, Ap	514	112	4.4	192	3	US-08-981-392-65	Sequence 65, Appli
442	118.5	4.7	3111	2	US-08-460-309-4	Sequence 4, Appli	515	112	4.4	716	4	US-09-908-322-65	Sequence 65, Appli
443	118.5	4.7	3111	2	US-08-125-077-4	Sequence 4, Appli	516	112	4.4	716	4	US-09-312-283C-183	Sequence 183, App
444	117.5	4.6	652	2	US-08-751-305-2	Sequence 2, Appli	517	111.5	4.4	3647	4	US-09-188-930-183	Sequence 183, App
445	117	4.6	214	4	US-10-164-595-38	Sequence 38, Appli	518	111	4.4	816	2	US-09-949-016-10932	Sequence 10932, A
446	116.5	4.6	994	4	US-10-164-595-38	Sequence 38, Appli	519	111	4.4	816	3	US-08-820-170A-37	Sequence 37, Appli
447	116.5	4.6	1854	4	US-09-949-016-11625	Sequence 11625, A	520	111	4.4	816	3	US-09-055-699-37	Sequence 37, Appli
448	116	4.6	174	1	US-07-641-971B-1	Sequence 1, Appli	521	111	4.4	816	3	US-09-273-565-37	Sequence 37, Appli
449	116	4.6	174	1	US-07-781-248A-1	Sequence 1, Appli	522	111	4.4	816	3	US-09-565-538-37	Sequence 37, Appli
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453	115.5	4.6	647	4	US-09-949-016-10272	Sequence 10272, A	526	110.5	4.4	158	3	US-08-468-413-2	Sequence 2, Appli
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455	114.5	4.5	1326	4	US-09-943-016-6806	Sequence 6806, Ap	528	110	4.3	157	4	PCT-US95-07169-2	Sequence 2, Appli
456	114.5	4.5	1339	4	US-09-949-016-10448	Sequence 10448, A	529	110	4.3	157	4	US-08-981-392-68	Sequence 68, Appli
457	114.5	4.5	1478	4	US-09-949-016-8315	Sequence 8315, Ap	530	110	4.3	375	4	US-09-908-322-68	Sequence 28, Appli
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459	114	4.5	593	2	US-08-429-998-4	Sequence 4, Appli	532	110	4.3	1171	1	US-09-205-258-441	Sequence 441, App
460	114	4.5	593	2	US-08-431-333-4	Sequence 4, Appli	533	110	4.3	1798	4	US-08-445-135-1	Sequence 1, Appli
461	114	4.5	593	5	PCT-US91-02321-4	Sequence 4, Appli	534	109.5	4.3	248	4	US-09-561-709B-11	Sequence 11, Appli
462	114	4.5	613	4	US-09-949-016-9775	Sequence 9775, Ap	535	109.5	4.3	248	4	US-09-600-932-28	Sequence 28, Appli
463	114	4.5	799	1	US-08-054-077C-2	Sequence 2, Appli	536	109.5	4.3	251	4	US-09-949-016-8481	Sequence 8481, Ap
464	114	4.5	1587	4	US-09-845-583A-10	Sequence 10, Appli	537	109.5	4.3	251	4	US-09-949-016-9058	Sequence 9058, Ap
465	114	4.5	1587	4	US-09-561-709B-3	Sequence 3, Appli	538	109.5	4.3	259	4	US-09-949-016-9059	Sequence 9059, Ap

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540	109.5	4.3	2211	4	US-10-096-961A-1	Sequence 1, Appli	613	104	4.1	460	6	5270178-16	Patent No. 5270178
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543	109	4.3	593	4	US-09-456-886-17	Sequence 17, Appl	616	104	4.1	908	4	US-08-714-741-44	Sequence 44, Appl
544	109	4.3	593	4	US-09-824-647-17	Sequence 17, Appl	617	104	4.1	1725	4	US-09-560-385A-10	Sequence 10, Appl
545	109	4.3	784	4	US-09-949-016-9467	Sequence 9467, Ap	618	103.5	4.1	768	1	US-08-454-455-4	Sequence 4, Appli
546	109	4.3	3460	3	US-09-334-220-1	Sequence 1, Appli	619	103.5	4.1	1111	1	US-08-317-450B-15	Sequence 15, Appl
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553	107.5	4.3	577	3	US-08-938-085A-29	Sequence 29, Appl	626	103.5	4.1	1193	4	US-09-560-385A-30	Sequence 30, Appl
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555	107.5	4.3	577	4	US-10-072-838-29	Sequence 29, Appl	628	103	4.1	122	5	PCT-US95-04258-9	Sequence 9, Appli
556	107.5	4.3	577	4	US-10-072-841A-29	Sequence 29, Appl	629	103	4.1	139	4	US-09-248-796A-15094	Sequence 15094, A
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558	107.5	4.3	757	4	US-09-949-016-6963	Sequence 6963, Ap	631	103	4.1	614	4	US-09-949-016-8536	Sequence 8536, Ap
559	107.5	4.3	758	4	US-09-949-016-8087	Sequence 8087, Ap	632	103	4.1	638	4	US-09-482-273-245	Sequence 245, App
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564	107.5	4.3	769	3	US-08-938-085A-31	Sequence 31, Appl	637	103	4.1	788	4	US-10-072-841A-27	Sequence 27, Appl
565	107.5	4.3	769	4	US-10-072-844-31	Sequence 31, Appl	638	103	4.1	788	4	US-10-072-841A-27	Sequence 27, Appl
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568	107.5	4.3	769	4	US-10-219-631A-31	Sequence 31, Appl	641	103	4.1	1147	2	US-08-735-893-3	Sequence 3, Appli
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571	107	4.2	718	1	US-08-444-792-4	Sequence 4, Appli	644	102.5	4.1	351	3	US-08-245-041-11	Sequence 11, Appl
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573	107	4.2	788	2	US-07-728-215-32	Sequence 32, Appl	646	102.5	4.1	351	4	US-09-893-238-11	Sequence 11, Appl
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575	107	4.2	788	3	US-09-409-648-3	Sequence 3, Appli	648	102.5	4.1	409	4	US-09-667-570A-2	Sequence 2, Appli
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577	107	4.2	788	4	US-10-072-844-32	Sequence 32, Appl	650	102.5	4.1	410	4	US-09-667-570A-1	Sequence 1, Appli
578	107	4.2	788	4	US-10-072-838-32	Sequence 32, Appl	651	102.5	4.1	419	1	US-08-295-411-1	Sequence 1, Appli
579	107	4.2	788	4	US-10-072-841A-32	Sequence 32, Appl	652	102.5	4.1	419	2	US-08-955-471-1	Sequence 1, Appli
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586	106.5	4.2	655	1	US-08-448-937A-12	Sequence 12, Appl	659	102.5	4.1	419	5	PCT-US92-10242-1	Sequence 1, Appli
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588	106.5	4.2	999	4	US-09-747-371-2	Sequence 2, Appli	661	102.5	4.1	460	2	US-08-756-506-4	Sequence 4, Appli
589	106	4.2	72	1	US-08-450-944-7	Sequence 7, Appli	662	102.5	4.1	460	6	5270178-13	Patent No. 5270178
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591	106	4.2	160	3	US-09-191-647-5	Sequence 5, Appli	664	102.5	4.1	460	6	5270178-15	Patent No. 5270178
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593	106	4.2	160	3	US-09-540-153-5	Sequence 5, Appli	666	102.5	4.1	460	6	5270178-14	Patent No. 5270178
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596	105.5	4.2	238	4	US-08-450-482B-117	Sequence 117, App	669	102.5	4.1	461	4	US-09-054-272-32	Sequence 32, Appl
597	105.5	4.2	575	1	US-08-170-290A-54	Sequence 54, Appl	670	102.5	4.1	461	4	US-09-949-016-5921	Sequence 5921, Ap
598	105.5	4.2	3635	4	US-09-845-583A-2	Sequence 2, Appli	671	102.5	4.1	461	6	5225537-2	Patent No. 5225537
599	105	4.2	197	4	US-09-370-838-206	Sequence 206, App	672	102.5	4.1	461	6	5270178-2	Patent No. 5270178
600	105	4.2	197	4	US-09-854-133-206	Sequence 206, App	673	102.5	4.1	461	6	5270178-17	Patent No. 5270178
601	105	4.2	227	4	US-08-450-482B-125	Sequence 125, App	674	102.5	4.1	461	6	5270178-18	Patent No. 5270178
602	105	4.2	229	4	US-08-450-482B-127	Sequence 127, App	675	102.5	4.1	461	6	5225537-3	Patent No. 5225537
603	105	4.2	961	4	US-09-657-472-4	Sequence 4, Appli	676	102.5	4.1	461	6	5225537-2	Patent No. 5225537
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605	104.5	4.1	238	3	US-09-111-470-8	Sequence 8, Appli	678	102.5	4.1	461	6	5270178-17	Patent No. 5270178
606	104.5	4.1	1656	4	US-09-862-802A-8	Sequence 8, Appli	679	102.5	4.1	461	6	5460953-3	Patent No. 5460953
607	104.5	4.1	238	4	US-09-949-016-7247	Sequence 7247, Ap	680	102.5	4.1	461	6	5270178-16	Patent No. 5270178
608	104.5	4.1	198	4	US-09-845-583A-8	Sequence 8, Appli	681	102.5	4.1	798	2	US-07-728-215-30	Sequence 30, Appl
609	104.5	4.1	198	4	US-09-317-254-87	Sequence 87, Appl	682	102.5	4.1	798	3	US-08-938-085A-30	Sequence 30, Appl
610	104.5	4.1	1821	4	US-09-949-016-5938	Sequence 5938, Ap	683	102.5	4.1	798	4	US-10-072-844-30	Sequence 30, Appl
611	104	4.1	194	3	US-09-188-930-335	Sequence 335, App	684	102.5	4.1	798	4	US-10-072-838-30	Sequence 30, Appl

685	102.5	4.1	798	4	US-10-072-841A-30	Sequence 30, Appl	758	99	3.9	80	3	US-09-051-624A-2	Sequence 2, Appl
686	102.5	4.1	798	4	US-10-219-631A-30	Sequence 30, Appl	759	99	3.9	120	1	US-08-274-661B-37	Sequence 37, Appl
687	102.5	4.1	798	4	US-09-949-016-6193	Sequence 6193, Ap	760	99	3.9	177	2	US-08-465-794-17	Sequence 17, Appl
688	102.5	4.1	2732	4	US-09-086-436-30	Sequence 7, Appl	761	99	3.9	177	3	US-09-049-813-17	Sequence 17, Appl
689	102	4.0	156	4	US-09-257-583-7	Sequence 7, Appl	762	99	3.9	199	5	PCT-US93-10418-4	Sequence 4, Appl
690	102	4.0	572	6	5256770-7	Patent No. 5256770	763	99	3.9	258	4	US-09-270-767-43579	Sequence 43579, A
691	102	4.0	572	6	5256770-7	Patent No. 5256770	764	99	3.9	321	4	US-09-270-767-45035	Sequence 45035, A
692	102	4.0	790	4	US-09-949-016-7017	Sequence 7017, Ap	765	99	3.9	321	1	US-08-365-470-3	Sequence 3, Appl
693	102	4.0	790	4	US-09-949-016-8169	Sequence 8169, Ap	766	99	3.9	610	3	US-09-209-668-19	Sequence 19, Appl
694	102	4.0	790	4	US-09-949-016-8170	Sequence 8170, Ap	767	99	3.9	610	3	US-09-009-490A-89	Sequence 89, Appl
695	102	4.0	1417	3	US-08-900-230-3	Sequence 3, Appl	768	99	3.9	610	4	US-09-949-016-5942	Sequence 5942, Ap
696	102	4.0	5405	3	US-08-718-388-9	Sequence 9, Appl	769	99	3.9	610	6	5217870-2	Patent No. 5217870
697	101.5	4.0	448	2	US-08-884-072-1	Sequence 1, Appl	770	99	3.9	610	6	5217870-2	Patent No. 5217870
698	101.5	4.0	448	3	US-09-212-168-1	Sequence 1, Appl	771	99	3.9	696	4	US-08-933-711B-7	Sequence 7, Appl
699	101.5	4.0	448	4	US-09-409-096-4	Sequence 4, Appl	772	99	3.9	696	4	US-09-538-092-650	Sequence 5, Appl
700	101.5	4.0	504	4	US-09-949-016-7403	Sequence 7403, Ap	773	99	3.9	4302	3	US-08-658-136-5	Sequence 5, Appl
701	101.5	4.0	663	4	US-08-933-711B-16	Sequence 16, Appl	774	98.5	3.9	78	1	US-08-264-534-2	Sequence 2, Appl
702	101	4.0	320	3	US-09-183-861-22	Sequence 22, Appl	775	98.5	3.9	78	1	US-08-083-590A-15	Sequence 15, Appl
703	101	4.0	320	3	US-09-183-861-55	Sequence 55, Appl	776	98.5	3.9	78	1	US-08-465-500-2	Sequence 2, Appl
704	101	4.0	320	3	US-09-022-765-22	Sequence 22, Appl	777	98.5	3.9	78	2	US-08-346-126-2	Sequence 2, Appl
705	101	4.0	320	3	US-09-022-765-55	Sequence 55, Appl	778	98.5	3.9	78	2	US-08-346-128-2	Sequence 2, Appl
706	101	4.0	320	4	US-09-551-974A-22	Sequence 22, Appl	779	98.5	3.9	78	3	US-08-532-384-15	Sequence 15, Appl
707	101	4.0	320	4	US-09-551-974A-55	Sequence 55, Appl	780	98.5	3.9	78	3	US-08-893-828-2	Sequence 2, Appl
708	101	4.0	320	4	US-09-565-501A-22	Sequence 22, Appl	781	98.5	3.9	174	2	US-08-401-530A-6	Sequence 6, Appl
709	101	4.0	320	4	US-09-565-501A-55	Sequence 55, Appl	782	98.5	3.9	174	2	US-08-709-662-6	Sequence 6, Appl
710	101	4.0	320	4	US-09-639-206A-22	Sequence 22, Appl	783	98.5	3.9	234	3	US-09-040-483-5	Sequence 5, Appl
711	101	4.0	320	4	US-09-639-206A-55	Sequence 55, Appl	784	98.5	3.9	234	4	US-08-740-036-5	Sequence 5, Appl
712	101	4.0	320	4	US-09-874-923-22	Sequence 22, Appl	785	98.5	3.9	314	2	US-08-460-309-19	Sequence 19, Appl
713	101	4.0	320	4	US-09-874-923-55	Sequence 55, Appl	786	98.5	3.9	314	2	US-08-125-077-19	Sequence 19, Appl
714	101	4.0	320	4	US-08-798-841-22	Sequence 22, Appl	787	98.5	3.9	325	4	US-09-949-016-11467	Sequence 11467, A
715	101	4.0	673	1	US-08-282-141-3	Sequence 3, Appl	788	98.5	3.9	325	4	US-09-949-016-11468	Sequence 11468, A
716	101	4.0	673	1	US-08-435-434-1	Sequence 1, Appl	789	98.5	3.9	352	4	US-09-949-016-8273	Sequence 8273, Ap
717	101	4.0	673	1	US-08-435-436-1	Sequence 1, Appl	790	98.5	3.9	352	4	US-09-949-016-8274	Sequence 8274, Ap
718	101	4.0	673	2	US-08-438-863-1	Sequence 1, Appl	791	98.5	3.9	353	4	US-09-482-273-243	Sequence 243, Ap
719	101	4.0	673	2	US-08-438-864-1	Sequence 1, Appl	792	98.5	3.9	387	2	US-08-884-072-5	Sequence 5, Appl
720	101	4.0	673	3	US-08-438-862-1	Sequence 1, Appl	793	98.5	3.9	387	2	US-08-833-963C-9	Sequence 9, Appl
721	101	4.0	673	3	US-08-628-747-1	Sequence 1, Appl	794	98.5	3.9	387	3	US-08-980-514-3	Sequence 3, Appl
722	101	4.0	673	3	US-08-402-253-1	Sequence 1, Appl	795	98.5	3.9	387	3	US-09-212-168-5	Sequence 5, Appl
723	101	4.0	673	3	US-08-443-868B-1	Sequence 1, Appl	796	98.5	3.9	387	4	US-09-409-096-2	Sequence 2, Appl
724	101	4.0	676	3	US-08-630-172-10	Sequence 10, Appl	797	98.5	3.9	493	4	US-09-322-357-1	Sequence 1, Appl
725	101	4.0	676	3	US-09-375-419-10	Sequence 10, Appl	798	98.5	3.9	857	2	US-08-659-251-2	Sequence 2, Appl
726	101	4.0	709	4	US-09-874-923-121	Sequence 121, App	799	98.5	3.9	857	3	US-09-256-490-2	Sequence 2, Appl
727	101	4.0	781	4	US-09-949-016-6959	Sequence 6959, Ap	800	98.5	3.9	857	5	PCT-US96-11445-2	Sequence 2, Appl
728	101	4.0	970	4	US-09-949-016-10131	Sequence 10131, A	801	98	3.9	117	6	5514582-15	Patent No. 5514582
729	101	4.0	1106	4	US-09-949-016-9626	Sequence 9626, Ap	802	98	3.9	117	6	5514582-15	Patent No. 5514582
730	101	4.0	4302	3	US-09-052-463-8	Sequence 8, Appl	803	98	3.9	448	4	US-09-949-016-10130	Sequence 2, Appl
731	101	4.0	4302	3	US-08-422-582-8	Sequence 8, Appl	804	97.5	3.9	277	4	US-09-600-932-2	Sequence 2, Appl
732	101	4.0	4302	4	US-09-052-262-8	Sequence 8, Appl	805	97.5	3.9	638	2	US-08-897-443-1	Sequence 1, Appl
733	101	4.0	4302	2	US-08-460-751-2	Sequence 2, Appl	806	97.5	3.9	677	4	US-09-949-016-11369	Sequence 11369, A
734	101	4.0	4303	4	US-09-479-467A-2	Sequence 2, Appl	807	97.5	3.9	677	4	US-09-949-016-11370	Sequence 11370, A
735	101	4.0	4339	3	US-09-052-463-6	Sequence 6, Appl	808	97.5	3.9	677	4	US-09-949-016-11371	Sequence 11371, A
736	101	4.0	4339	4	US-08-422-582-6	Sequence 6, Appl	809	97.5	3.9	677	4	US-09-949-016-11372	Sequence 11372, A
737	100.5	4.0	4339	4	US-09-052-262-6	Sequence 6, Appl	810	97.5	3.9	963	4	US-09-949-016-11519	Sequence 11519, A
738	100.5	4.0	1461	4	US-10-142-231-86	Sequence 86, Appl	811	97.5	3.9	963	4	US-09-949-016-11520	Sequence 11520, A
739	100	4.0	243	2	US-08-460-309-15	Sequence 15, Appl	812	97.5	3.9	1073	4	US-09-949-016-9771	Sequence 9771, Ap
740	100	4.0	243	2	US-08-125-077-15	Sequence 15, Appl	813	97.5	3.9	2088	4	US-09-548-372D-13	Sequence 13, Appl
741	100	4.0	244	3	US-08-772-440-2	Sequence 2, Appl	814	97.5	3.9	2088	4	US-09-548-367D-13	Sequence 13, Appl
742	100	4.0	592	4	US-08-933-711B-18	Sequence 18, Appl	815	97.5	3.9	2088	4	US-09-551-853D-13	Sequence 13, Appl
743	100	4.0	871	3	US-09-245-041-19	Sequence 19, Appl	816	97.5	3.9	2088	4	US-09-548-376D-13	Sequence 13, Appl
744	100	4.0	871	4	US-09-358-055B-19	Sequence 19, Appl	817	97.5	3.9	2088	4	US-09-548-373D-13	Sequence 13, Appl
745	100	4.0	871	4	US-09-893-238-19	Sequence 19, Appl	818	97.5	3.9	2088	4	US-09-548-366F-13	Sequence 13, Appl
746	100	4.0	1594	4	US-09-560-385A-12	Sequence 12, Appl	819	97.5	3.9	2088	4	US-09-548-368D-13	Sequence 13, Appl
747	99.5	3.9	154	3	US-09-191-647-10	Sequence 10, Appl	820	97	3.8	110	6	5514582-9	Patent No. 5514582
748	99.5	3.9	154	3	US-09-540-245A-10	Sequence 10, Appl	821	97	3.8	110	6	5514582-9	Patent No. 5514582
749	99.5	3.9	154	3	US-09-540-153-10	Sequence 10, Appl	822	97	3.8	155	4	US-09-898-554-18	Sequence 18, Appl
750	99.5	3.9	238	4	US-09-004-730A-112	Sequence 112, App	823	97	3.8	201	4	US-09-898-554-16	Sequence 16, Appl
751	99.5	3.9	238	4	US-08-981-799A-112	Sequence 112, App	824	97	3.8	363	4	US-09-898-554-20	Sequence 20, Appl
752	99.5	3.9	242	4	US-09-004-730A-119	Sequence 119, App	825	97	3.8	787	4	US-10-000-489-70	Sequence 70, Appl
753	99.5	3.9	242	4	US-08-981-799A-119	Sequence 119, App	826	97	3.8	799	2	US-08-525-940-23	Sequence 23, Appl
754	99.5	3.9	264	4	US-09-004-730A-115	Sequence 115, App	827	97	3.8	799	2	US-08-976-838-23	Sequence 23, Appl
755	99.5	3.9	264	4	US-08-981-799A-115	Sequence 115, App	828	97	3.8	881	2	US-08-525-940-21	Sequence 21, Appl
756	99.5	3.9	2476	2	US-08-276-967-2	Sequence 2, Appl	829	97	3.8	881	2	US-08-976-838-21	Sequence 21, Appl
757	99	3.9	80	3	US-08-663-191A-3	Sequence 3, Appl	830	97	3.8	915	2	US-08-525-940-18	Sequence 18, Appl

831	97	3.8	915	2	US-08-976-838-18	Sequence 18, Appl	904	95.5	3.8	846	4	US-10-072-838-33	Sequence 33, Appl
832	97	3.8	915	3	US-09-214-558B-2	Sequence 2, Appli	905	95.5	3.8	846	4	US-10-072-841A-33	Sequence 33, Appl
833	97	3.8	915	3	US-09-214-558B-7	Sequence 7, Appli	906	95.5	3.8	846	4	US-10-219-631A-33	Sequence 33, Appl
834	97	3.8	1436	4	US-09-578-063-78	Sequence 78, Appl	907	95.5	3.8	910	4	US-09-902-540-10793	Sequence 10793, A
835	97	3.8	1586	4	US-09-060-299-44	Sequence 44, Appl	908	95.5	3.8	956	4	US-09-949-016-6215	Sequence 6215, Ap
836	97	3.8	1586	4	US-09-402-923A-44	Sequence 44, Appl	909	95.5	3.8	1049	4	US-09-538-092-72	Sequence 72, Appli
837	97	3.8	1614	4	US-09-060-299-42	Sequence 42, Appl	910	95.5	3.8	2594	3	US-08-718-388-7	Sequence 7, Appli
838	97	3.8	1614	4	US-09-402-923A-42	Sequence 42, Appl	911	95.5	3.8	5179	4	US-09-538-092-1258	Sequence 1258, Ap
839	97	3.8	1882	3	US-09-369-364A-13	Sequence 13, Appl	912	95	3.8	198	4	US-09-902-540-15333	Sequence 15333, A
840	96.5	3.8	247	4	US-09-270-767-45893	Sequence 45893, A	913	95	3.8	241	2	US-08-460-309-17	Sequence 17, Appl
841	96.5	3.8	291	2	US-08-688-342-5	Sequence 5, Appli	914	95	3.8	241	2	US-08-125-077-17	Sequence 17, Appl
842	96.5	3.8	291	2	US-09-113-780-5	Sequence 5, Appli	915	95	3.8	350	2	US-08-999-811-4	Sequence 4, Appli
843	96.5	3.8	291	3	US-09-111-470-5	Sequence 5, Appli	916	95	3.8	350	2	US-08-824-996-2	Sequence 2, Appli
844	96.5	3.8	291	4	US-09-862-802A-5	Sequence 5, Appli	917	95	3.8	350	3	US-09-042-105-4	Sequence 4, Appli
845	96.5	3.8	296	4	US-09-489-847-293	Sequence 293, App	918	95	3.8	350	3	US-08-510-133A-33	Sequence 33, Appl
846	96.5	3.8	311	4	US-09-949-016-9962	Sequence 9962, Ap	919	95	3.8	350	3	US-08-585-895-33	Sequence 33, Appl
847	96.5	3.8	335	4	US-09-312-283C-186	Sequence 186, App	920	95	3.8	350	4	US-10-084-488-4	Sequence 4, Appli
848	96.5	3.8	347	4	US-09-636-215-590	Sequence 590, App	921	95	3.8	419	2	US-08-999-811-2	Sequence 2, Appli
849	96.5	3.8	347	4	US-09-685-166A-590	Sequence 590, App	922	95	3.8	419	3	US-09-042-105-2	Sequence 2, Appli
850	96.5	3.8	347	4	US-09-679-426-590	Sequence 590, App	923	95	3.8	419	3	US-09-042-105-18	Sequence 18, Appl
851	96.5	3.8	347	4	US-09-759-143-590	Sequence 590, App	924	95	3.8	419	3	US-08-795-430-8	Sequence 8, Appli
852	96.5	3.8	347	4	US-09-651-236-590	Sequence 590, App	925	95	3.8	419	3	US-08-510-133A-35	Sequence 35, Appl
853	96.5	3.8	374	2	US-08-820-170A-25	Sequence 25, Appl	926	95	3.8	419	3	US-09-355-700-8	Sequence 8, Appli
854	96.5	3.8	374	3	US-09-055-699-25	Sequence 25, Appl	927	95	3.8	419	3	US-09-355-700-58	Sequence 58, Appl
855	96.5	3.8	374	3	US-09-273-565-25	Sequence 25, Appl	928	95	3.8	419	4	US-08-601-132-33	Sequence 33, Appl
856	96.5	3.8	374	3	US-09-565-538-25	Sequence 25, Appl	929	95	3.8	419	4	US-08-706-054A-3	Sequence 3, Appli
857	96.5	3.8	374	3	US-09-661-468-25	Sequence 25, Appl	930	95	3.8	419	4	US-09-313-299-3	Sequence 3, Appli
858	96.5	3.8	374	4	US-09-976-165-25	Sequence 25, Appl	931	95	3.8	419	4	US-08-465-968-2	Sequence 2, Appli
859	96.5	3.8	374	4	US-09-227-853A-2	Sequence 2, Appli	932	95	3.8	419	4	US-08-671-573B-33	Sequence 33, Appl
860	96.5	3.8	374	5	PCT-US95-06385-2	Sequence 2, Appli	933	95	3.8	419	4	US-09-438-046-14	Sequence 14, Appl
861	96.5	3.8	482	4	US-08-933-711B-8	Sequence 8, Appli	934	95	3.8	419	4	US-09-631-092B-33	Sequence 33, Appl
862	96.5	3.8	505	1	US-08-220-603A-10	Sequence 10, Appl	935	95	3.8	419	4	US-10-084-488-2	Sequence 2, Appli
863	96.5	3.8	657	4	US-09-949-016-11365	Sequence 11365, A	936	95	3.8	419	4	US-10-084-488-18	Sequence 18, Appl
864	96.5	3.8	657	4	US-09-949-016-11366	Sequence 11366, A	937	95	3.8	419	4	US-09-375-248-4	Sequence 4, Appli
865	96.5	3.8	657	4	US-09-949-016-11367	Sequence 11367, A	938	95	3.8	419	4	US-09-468-647A-108	Sequence 108, App
866	96.5	3.8	657	4	US-09-949-016-11368	Sequence 11368, A	939	95	3.8	419	4	US-09-534-376A-8	Sequence 8, Appli
867	96.5	3.8	1388	4	US-09-463-048A-6	Sequence 6, Appli	940	95	3.8	419	4	US-09-534-376A-58	Sequence 58, Appl
868	96.5	3.8	1497	4	US-09-060-854B-2	Sequence 2, Appli	941	95	3.8	419	4	US-09-169-079-21	Sequence 21, Appl
869	96.5	3.8	1497	4	US-09-529-904-3	Sequence 3, Appli	942	95	3.8	419	4	US-09-214-982-29	Sequence 29, Appl
870	96.5	3.8	1621	4	US-09-949-016-8450	Sequence 8450, Ap	943	95	3.8	419	5	PCT-US96-09001-2	Sequence 2, Appli
871	96	3.8	120	6	5447911-1	Patent No. 5447911	944	94.5	3.8	486	4	US-09-914-259-35	Sequence 35, Appl
872	96	3.8	120	6	5447911-1	Patent No. 5447911	945	94.5	3.8	486	4	US-09-976-594-278	Sequence 278, App
873	96	3.8	199	3	US-08-772-440-13	Sequence 13, Appl	946	95	3.8	486	4	US-09-949-016-6216	Sequence 6216, Ap
874	96	3.8	237	3	US-09-111-470-2	Sequence 2, Appli	947	95	3.8	507	4	US-09-949-016-9878	Sequence 9878, Ap
875	96	3.8	237	3	US-09-862-802A-2	Sequence 2, Appli	948	95	3.8	136	6	5189019-6	Patent No. 5189019
876	96	3.8	666	3	US-09-422-869-18	Sequence 18, Appl	949	94.5	3.7	136	6	5189019-6	Patent No. 5189019
877	96	3.8	915	4	US-09-907-794A-34	Sequence 34, Appl	950	94.5	3.7	175	2	US-08-401-530A-3	Sequence 3, Appli
878	96	3.8	915	4	US-09-905-125A-34	Sequence 34, Appl	951	94.5	3.7	175	2	US-08-709-662-3	Sequence 3, Appli
879	96	3.8	915	4	US-09-902-775A-34	Sequence 34, Appl	952	94.5	3.7	248	4	US-08-450-482B-115	Sequence 115, App
880	96	3.8	915	4	US-09-906-700-34	Sequence 34, Appl	953	94.5	3.7	248	4	US-08-480-229C-14	Sequence 14, Appl
881	96	3.8	915	4	US-09-903-603A-34	Sequence 34, Appl	954	94.5	3.7	513	2	US-08-659-235C-14	Sequence 14, Appl
882	96	3.8	915	4	US-09-904-920A-34	Sequence 34, Appl	955	94.5	3.7	513	2	US-08-659-235C-14	Sequence 14, Appl
883	96	3.8	915	4	US-09-909-064-34	Sequence 34, Appl	956	94.5	3.7	584	4	US-09-949-016-10340	Sequence 10340, A
884	96	3.8	915	4	US-09-905-381A-34	Sequence 34, Appl	957	94.5	3.7	584	4	US-09-949-016-10341	Sequence 10341, A
885	96	3.8	915	4	US-09-906-618A-34	Sequence 34, Appl	958	94	3.7	119	1	US-08-340-539A-16	Sequence 16, Appl
886	96	3.8	1725	4	US-09-562-702A-20	Sequence 20, Appl	959	94	3.7	165	4	US-09-706-722A-3	Sequence 3, Appli
887	96	3.8	1725	4	US-09-561-818A-20	Sequence 20, Appl	960	94	3.7	240	4	US-10-008-011A-5	Sequence 5, Appli
888	96	3.8	1786	4	US-09-562-702A-18	Sequence 18, Appl	961	94	3.7	686	3	US-09-245-041-13	Sequence 13, Appl
889	96	3.8	1786	4	US-09-561-818A-18	Sequence 18, Appl	962	94	3.7	686	3	US-09-358-055B-13	Sequence 13, Appl
890	96	3.8	2362	4	US-09-949-016-8985	Sequence 8985, Ap	963	94	3.7	686	4	US-09-893-238-13	Sequence 13, Appl
891	95.5	3.8	123	6	5514582-19	Patent No. 5514582	964	94	3.7	1142	4	US-09-252-991A-18234	Sequence 18234, A
892	95.5	3.8	123	6	5514582-19	Patent No. 5514582	965	94	3.7	1153	4	US-09-560-385A-16	Sequence 16, Appl
893	95.5	3.8	126	3	US-08-772-440-10	Sequence 10, Appl	966	94	3.7	1170	4	US-09-561-709B-12	Sequence 12, Appl
894	95.5	3.8	161	3	US-09-011-735-6	Sequence 6, Appli	967	94	3.7	1170	4	US-09-560-385A-14	Sequence 14, Appl
895	95.5	3.8	176	3	US-08-772-440-8	Sequence 8, Appli	968	94	3.7	1196	2	US-08-144-121-4	Sequence 4, Appli
896	95.5	3.8	180	3	US-08-772-440-31	Sequence 31, Appl	969	94	3.7	1196	2	US-08-735-893-4	Sequence 4, Appli
897	95.5	3.8	317	3	US-09-383-586-20	Sequence 20, Appl	970	94	3.7	1765	4	US-09-562-702A-16	Sequence 16, Appl
898	95.5	3.8	317	3	US-09-823-038A-20	Sequence 20, Appl	971	94	3.7	1765	4	US-09-561-818A-16	Sequence 16, Appl
899	95.5	3.8	351	3	US-09-011-735-1	Sequence 1, Appli	972	94	3.7	1786	4	US-09-562-702A-14	Sequence 14, Appl
900	95.5	3.8	351	3	US-09-029-156-1	Sequence 1, Appli	973	94	3.7	1786	4	US-09-561-818A-14	Sequence 14, Appl
901	95.5	3.8	846	2	US-07-728-215-33	Sequence 33, Appl	974	94	3.7	1786	4	US-09-561-709B-9	Sequence 9, Appli
902	95.5	3.8	846	3	US-08-338-085A-33	Sequence 33, Appl	975	94	3.7	1786	4	US-09-538-092-869	Sequence 869, App
903	95.5	3.8	846	4	US-10-072-844-33	Sequence 33, Appl	976	93.5	3.7	461	3	US-08-742-877-2	Sequence 2, Appli

977	93.5	3.7	580	3	US-08-482-677-10	Sequence 10, Appl	1050	91.5	3.6	180	4	US-09-510-238A-286	Sequence 286, Appl
978	93.5	3.7	580	4	US-10-033-174-10	Sequence 10, Appl	1051	91.5	3.6	192	4	US-09-252-991A-22703	Sequence 22703, A
979	93.5	3.7	589	1	US-07-668-648-6	Sequence 6, Appl	1052	91.5	3.6	252	4	US-09-949-016-8814	Sequence 8814, Ap
980	93.5	3.7	589	2	US-08-429-998-6	Sequence 6, Appl	1053	91.5	3.6	273	1	US-08-152-019A-30	Sequence 30, Appl
981	93.5	3.7	589	3	US-08-431-333-6	Sequence 6, Appl	1054	91.5	3.6	380	3	US-08-468-846-2	Sequence 2, Appl
982	93.5	3.7	589	3	US-08-991-862-2	Sequence 2, Appl	1055	91.5	3.6	380	3	US-08-915-096A-2	Sequence 2, Appl
983	93.5	3.7	589	4	US-09-813-156-2	Sequence 2, Appl	1056	91.5	3.6	384	4	US-09-949-016-9661	Sequence 9661, Ap
984	93.5	3.7	589	4	US-09-456-886-2	Sequence 2, Appl	1057	91.5	3.6	415	1	US-08-073-531B-1	Sequence 1, Appl
985	93.5	3.7	589	4	US-09-824-647-2	Sequence 2, Appl	1058	91.5	3.6	415	1	US-08-295-411-2	Sequence 2, Appl
986	93.5	3.7	589	5	PCT-US91-02321-6	Sequence 6, Appl	1059	91.5	3.6	415	2	US-08-935-471-2	Sequence 2, Appl
987	93.5	3.7	1083	1	US-08-296-014A-2	Sequence 2, Appl	1060	91.5	3.6	415	2	US-08-766-288-1	Sequence 1, Appl
988	93.5	3.7	1083	2	US-08-596-405-2	Sequence 2, Appl	1061	91.5	3.6	415	5	PCT-US92-10242-2	Sequence 2, Appl
989	93.5	3.7	1083	2	US-08-877-620-2	Sequence 2, Appl	1062	91.5	3.6	443	2	US-08-833-963C-2	Sequence 2, Appl
990	93.5	3.7	1083	4	US-09-287-368-2	Sequence 2, Appl	1063	91.5	3.6	443	3	US-08-980-514-1	Sequence 1, Appl
991	93.5	3.7	1083	4	US-09-626-795-2	Sequence 2, Appl	1064	91.5	3.6	466	4	US-09-949-016-7792	Sequence 7792, Ap
992	93.5	3.7	1342	4	US-09-561-709B-13	Sequence 13, Appl	1065	91.5	3.6	1010	4	US-09-118-276-12	Sequence 12, Appl
993	93.5	3.7	1317	4	US-09-627-650B-5	Sequence 5, Appl	1066	91.5	3.6	1101	4	US-09-561-709B-5	Sequence 5, Appl
994	93.5	3.7	1317	4	US-09-436-063C-5	Sequence 5, Appl	1067	91	3.6	79	4	US-10-006-011A-7	Sequence 7, Appl
995	93.5	3.7	2813	4	US-09-381-261A-1	Sequence 1, Appl	1068	91	3.6	234	4	US-09-902-540-15175	Sequence 15175, A
996	93.5	3.7	4654	3	US-08-476-515A-84	Sequence 84, Appl	1069	91	3.6	247	4	US-09-898-554-14	Sequence 14, Appl
997	93.5	3.7	4655	3	US-08-652-877-84	Sequence 84, Appl	1070	91	3.6	253	4	US-09-949-016-10527	Sequence 10527, A
998	93.5	3.7	4655	3	US-08-652-877-86	Sequence 86, Appl	1071	91	3.6	418	3	US-08-795-430-13	Sequence 13, Appl
999	93.5	3.7	4655	3	US-08-652-877-88	Sequence 88, Appl	1072	91	3.6	418	3	US-09-355-700-13	Sequence 13, Appl
1000	93.5	3.7	4655	3	US-08-652-877-90	Sequence 90, Appl	1073	91	3.6	418	4	US-09-534-376A-13	Sequence 13, Appl
1001	93	3.7	120	1	US-08-274-661B-36	Sequence 36, Appl	1074	91	3.6	995	2	US-08-673-789-5	Sequence 5, Appl
1002	93	3.7	134	3	US-08-543-246B-20	Sequence 20, Appl	1075	91	3.6	997	4	US-09-747-371-3	Sequence 3, Appl
1003	93	3.7	216	3	US-08-543-246B-20	Sequence 20, Appl	1076	91	3.6	1155	4	US-09-560-385A-24	Sequence 24, Appl
1004	93	3.7	216	3	US-08-543-246B-24	Sequence 24, Appl	1077	91	3.6	1167	4	US-09-560-385A-20	Sequence 20, Appl
1005	93	3.7	589	1	US-07-668-648-2	Sequence 2, Appl	1078	91	3.6	1172	4	US-09-919-172-16	Sequence 16, Appl
1006	93	3.7	589	2	US-08-429-998-2	Sequence 2, Appl	1079	91	3.6	1174	4	US-09-560-385A-22	Sequence 22, Appl
1007	93	3.7	589	2	US-08-431-333-2	Sequence 2, Appl	1080	91	3.6	1186	4	US-09-560-385A-18	Sequence 18, Appl
1008	93	3.7	589	5	PCT-US91-02321-2	Sequence 2, Appl	1081	91	3.6	1345	2	US-08-977-767-3	Sequence 3, Appl
1009	93	3.7	750	4	US-09-270-767-42975	Sequence 42975, A	1082	91	3.6	3461	3	US-09-334-220-2	Sequence 2, Appl
1010	93	3.7	1171	4	US-09-560-385A-36	Sequence 36, Appl	1083	90.5	3.6	77	4	US-09-531-056A-22	Sequence 22, Appl
1011	93	3.7	1192	4	US-09-560-385A-34	Sequence 34, Appl	1084	90.5	3.6	230	2	US-08-471-371-2	Sequence 2, Appl
1012	93	3.7	2050	2	US-08-347-594A-2	Sequence 2, Appl	1085	90.5	3.6	559	4	US-10-136-227A-28	Sequence 28, Appl
1013	92.5	3.7	104	3	US-09-191-647-13	Sequence 13, Appl	1086	90.5	3.6	559	4	US-09-981-649A-28	Sequence 28, Appl
1014	92.5	3.7	104	3	US-09-540-245A-13	Sequence 13, Appl	1087	90.5	3.6	620	1	US-08-325-071-65	Sequence 65, Appl
1015	92.5	3.7	104	3	US-09-540-153-13	Sequence 13, Appl	1088	90.5	3.6	620	3	US-08-461-004A-65	Sequence 65, Appl
1016	92.5	3.7	248	4	US-09-252-991A-17358	Sequence 17358, A	1089	90.5	3.6	943	3	US-08-476-515A-12	Sequence 12, Appl
1017	92.5	3.7	271	1	US-08-152-019A-28	Sequence 28, Appl	1090	90.5	3.6	944	3	US-08-652-877-12	Sequence 12, Appl
1018	92.5	3.7	415	4	US-09-118-748-2	Sequence 2, Appl	1091	90.5	3.6	1019	4	US-09-902-540-15897	Sequence 15897, A
1019	92.5	3.7	457	4	US-09-774-639-108	Sequence 108, Appl	1092	90.5	3.6	1104	2	US-08-327-832-5	Sequence 5, Appl
1020	92.5	3.7	461	3	US-09-053-871A-21	Sequence 21, Appl	1093	90.5	3.6	1104	2	US-08-828-584-5	Sequence 5, Appl
1021	92.5	3.7	461	4	US-10-133-907-5	Sequence 5, Appl	1094	90.5	3.6	1242	4	US-09-488-270A-2	Sequence 2, Appl
1022	92.5	3.7	461	6	5521070-2	Patent No. 5521070	1095	90	3.6	255	4	US-10-006-011A-8	Sequence 8, Appl
1023	92.5	3.7	461	6	5521070-2	Patent No. 5521070	1096	90	3.6	284	4	US-10-006-011A-9	Sequence 9, Appl
1024	92.5	3.7	480	4	US-09-949-016-11123	Sequence 11123, A	1097	90	3.6	349	3	US-09-006-353A-13	Sequence 13, Appl
1025	92.5	3.7	769	1	US-08-454-455-6	Sequence 6, Appl	1098	90	3.6	349	3	US-09-573-986-13	Sequence 13, Appl
1026	92.5	3.7	831	4	US-09-949-016-10169	Sequence 10169, A	1099	90	3.6	357	4	US-09-949-016-9074	Sequence 9074, Ap
1027	92.5	3.7	1019	1	US-08-296-014A-4	Sequence 4, Appl	1100	90	3.6	550	4	US-09-949-016-11512	Sequence 11512, A
1028	92.5	3.7	1019	2	US-08-596-405-4	Sequence 4, Appl	1101	90	3.6	745	4	US-09-548-797B-4	Sequence 4, Appl
1029	92.5	3.7	1019	2	US-08-877-620-4	Sequence 4, Appl	1102	90	3.6	787	4	US-09-548-797B-5	Sequence 5, Appl
1030	92.5	3.7	1019	4	US-09-287-368-4	Sequence 4, Appl	1103	90	3.6	802	4	US-09-632-098-2	Sequence 2, Appl
1031	92.5	3.7	1019	4	US-09-626-795-4	Sequence 4, Appl	1104	90	3.6	802	4	US-10-177-308-2	Sequence 2, Appl
1032	92	3.6	119	1	US-08-340-539A-15	Sequence 15, Appl	1105	90	3.6	812	4	US-09-632-098-4	Sequence 4, Appl
1033	92	3.6	119	1	US-08-340-539A-18	Sequence 18, Appl	1106	90	3.6	812	4	US-10-177-308-4	Sequence 4, Appl
1034	92	3.6	169	2	US-08-460-303-20	Sequence 20, Appl	1107	90	3.6	849	4	US-09-548-797B-6	Sequence 6, Appl
1035	92	3.6	169	2	US-08-125-077-20	Sequence 20, Appl	1108	90	3.6	997	3	US-09-369-364A-7	Sequence 7, Appl
1036	92	3.6	174	2	US-08-401-530A-2	Sequence 2, Appl	1109	90	3.6	1156	3	US-08-986-083-1	Sequence 1, Appl
1037	92	3.6	174	2	US-08-709-662-2	Sequence 2, Appl	1110	90	3.6	1156	3	US-09-429-516-1	Sequence 1, Appl
1038	92	3.6	175	1	US-08-909-725-6	Sequence 6, Appl	1111	90	3.6	1156	3	US-09-429-516-3	Sequence 3, Appl
1039	92	3.6	257	4	US-09-312-283C-381	Sequence 381, Appl	1112	90	3.6	1400	3	US-08-630-915A-37	Sequence 37, Appl
1040	92	3.6	492	4	US-09-635-872A-19	Sequence 19, Appl	1113	90	3.6	1400	4	US-09-879-957-37	Sequence 37, Appl
1041	92	3.6	492	4	US-09-636-077A-19	Sequence 19, Appl	1114	90	3.6	1833	3	US-08-479-722B-2	Sequence 2, Appl
1042	92	3.6	492	4	US-09-636-060C-19	Sequence 19, Appl	1115	90	3.6	1833	4	US-09-592-685-2	Sequence 2, Appl
1043	92	3.6	492	4	US-09-986-552-19	Sequence 19, Appl	1116	90	3.6	1833	5	PCT-US95-02251-18	Sequence 18, Appl
1044	92	3.6	492	4	US-09-636-596C-19	Sequence 19, Appl	1117	90	3.6	2508	4	US-09-627-650B-7	Sequence 7, Appl
1045	92	3.6	492	4	US-10-023-894-20	Sequence 20, Appl	1118	90	3.6	2508	4	US-09-436-063C-7	Sequence 7, Appl
1046	92	3.6	492	4	US-10-306-686-19	Sequence 20, Appl	1119	89.5	3.5	115	3	US-08-722-126A-8	Sequence 8, Appl
1047	92	3.6	656	4	US-08-933-711B-15	Sequence 15, Appl	1120	89.5	3.5	115	5	PCT-US95-04258-8	Sequence 8, Appl
1048	91.5	3.6	136	2	US-08-560-098A-59	Sequence 59, Appl	1121	89.5	3.5	199	4	US-09-949-016-6129	Sequence 6129, Ap
1049	91.5	3.6	175	4	US-09-252-991A-18125	Sequence 18125, A	1122	89.5	3.5	199	5	PCT-US93-10418-2	Sequence 2, Appl

1123	89.5	3.5	205	4	US-09-949-016-10299	Sequence 10299, A	1196	87	3.4	515	4	US-09-636-596C-6	Sequence 6, Appli
1124	89.5	3.5	575	4	US-09-949-016-11264	Sequence 11264, A	1197	87	3.4	515	4	US-10-023-894-18	Sequence 18, Appli
1125	89.5	3.5	575	4	US-09-949-016-11265	Sequence 11265, A	1198	87	3.4	515	4	US-10-306-686-6	Sequence 6, Appli
1126	89.5	3.5	575	4	US-09-949-016-11266	Sequence 11266, A	1199	87	3.4	898	2	US-08-808-982-5	Sequence 5, Appli
1127	89.5	3.5	575	4	US-09-949-016-11267	Sequence 11267, A	1200	87	3.4	898	3	US-09-306-902A-5	Sequence 5, Appli
1128	89.5	3.5	879	4	US-09-872-733A-16	Sequence 16, Appli	1201	87	3.4	921	4	US-09-699-266A-9	Sequence 9, Appli
1129	89.5	3.5	1036	4	US-09-949-016-6910	Sequence 6910, Ap	1202	87	3.4	956	2	US-08-897-443-3	Sequence 3, Appli
1130	89.5	3.5	1049	4	US-09-949-016-11522	Sequence 11522, A	1203	87	3.4	2544	4	US-09-627-650B-3	Sequence 3, Appli
1131	89	3.5	274	3	US-09-188-930-336	Sequence 336, App	1204	87	3.4	2544	4	US-09-436-063C-3	Sequence 3, Appli
1132	89	3.5	274	3	US-09-312-283C-336	Sequence 336, App	1205	86.5	3.4	347	4	US-09-907-794A-148	Sequence 148, App
1133	89	3.5	430	3	US-08-997-897-2	Sequence 2, Appli	1206	86.5	3.4	347	4	US-09-905-125A-148	Sequence 148, App
1134	89	3.5	430	3	US-09-156-836B-2	Sequence 2, Appli	1207	86.5	3.4	347	4	US-09-902-775A-148	Sequence 148, App
1135	89	3.5	574	4	US-09-248-796A-15283	Sequence 15283, A	1208	86.5	3.4	347	4	US-09-906-700-148	Sequence 148, App
1136	89	3.5	615	2	US-08-663-568A-17	Sequence 17, Appli	1209	86.5	3.4	347	4	US-09-903-603A-148	Sequence 148, App
1137	89	3.5	615	2	US-08-023-610-17	Sequence 17, Appli	1210	86.5	3.4	347	4	US-09-904-920A-148	Sequence 148, App
1138	89	3.5	615	2	US-08-288-065A-17	Sequence 17, Appli	1211	86.5	3.4	347	4	US-09-909-064-148	Sequence 148, App
1139	89	3.5	615	2	US-08-362-240A-17	Sequence 17, Appli	1212	86.5	3.4	347	4	US-09-905-381A-148	Sequence 148, App
1140	89	3.5	615	5	US-08-362-240A-17	Sequence 17, Appli	1213	86.5	3.4	347	4	US-09-906-618-148	Sequence 148, App
1141	89	3.5	650	1	US-08-325-071-63	Sequence 63, Appli	1214	86.5	3.4	398	4	US-09-252-991A-26217	Sequence 26217, A
1142	89	3.5	650	3	US-08-461-004A-63	Sequence 63, Appli	1215	86.5	3.4	554	4	US-10-136-237A-30	Sequence 30, Appli
1143	89	3.5	746	4	US-09-589-892B-2	Sequence 2, Appli	1216	86.5	3.4	554	4	US-09-981-649A-30	Sequence 30, Appli
1144	89	3.5	1342	1	US-07-978-895-4	Sequence 4, Appli	1217	86.5	3.4	2601	4	US-09-627-650B-9	Sequence 9, Appli
1145	89	3.5	1342	2	US-08-473-119-4	Sequence 4, Appli	1218	86	3.4	2601	4	US-09-436-063C-9	Sequence 9, Appli
1146	89	3.5	1342	2	US-08-475-352-4	Sequence 4, Appli	1219	86	3.4	119	1	US-08-468-347-20	Sequence 20, Appli
1147	89	3.5	1342	4	US-09-170-699-4	Sequence 4, Appli	1220	86	3.4	119	2	US-08-467-389-20	Sequence 20, Appli
1148	89	3.5	1343	6	5183884-4	Sequence 4, Appli	1221	86	3.4	119	2	US-08-779-379-20	Sequence 20, Appli
1149	89	3.5	1343	6	5183884-4	Sequence 4, Appli	1222	86	3.4	119	2	US-08-469-219-20	Sequence 20, Appli
1150	89	3.5	1360	4	US-09-949-016-8022	Sequence 8022, Ap	1223	86	3.4	119	2	US-08-469-219-20	Sequence 20, Appli
1151	89	3.5	2813	3	US-08-896-449A-2	Sequence 2, Appli	1224	86	3.4	119	3	US-09-228-152-19	Sequence 19, Appli
1152	89	3.5	2813	3	US-09-132-652-2	Sequence 2, Appli	1225	86	3.4	225	3	US-09-040-483-1	Sequence 1, Appli
1153	89	3.5	2813	4	US-09-886-900A-2	Sequence 2, Appli	1226	86	3.4	225	4	US-08-740-036-1	Sequence 13, Appli
1154	89	3.5	2813	4	US-09-662-478C-2	Sequence 2, Appli	1227	86	3.4	278	2	US-08-460-039-13	Sequence 13, Appli
1155	88.5	3.5	132	5	US-07-893-929A-5	Sequence 5, Appli	1228	86	3.4	278	2	US-08-125-077-13	Sequence 13, Appli
1156	88.5	3.5	302	4	US-09-520-781-20	Sequence 20, Appli	1229	86	3.4	279	1	US-08-152-019A-29	Sequence 29, Appli
1157	88.5	3.5	302	4	US-09-520-781-20	Sequence 20, Appli	1230	86	3.4	288	1	US-08-368-852-15	Sequence 15, Appli
1158	88.5	3.5	256	4	US-09-054-272-18	Sequence 18, Appli	1231	86	3.4	349	3	US-09-161-241-8	Sequence 8, Appli
1159	88.5	3.5	1170	1	US-08-313-288B-20	Sequence 20, Appli	1232	86	3.4	405	4	US-09-252-991A-30240	Sequence 30240, A
1160	88	3.5	225	4	US-08-832-488-2	Sequence 2, Appli	1233	86	3.4	410	6	5177197-1	Patent No. 5177197
1161	88	3.5	243	2	US-08-460-309-16	Sequence 16, Appli	1234	86	3.4	410	6	5177197-1	Patent No. 5177197
1162	88	3.5	243	2	US-08-125-077-16	Sequence 16, Appli	1235	86	3.4	484	2	US-08-252-493C-9	Sequence 9, Appli
1163	88	3.5	292	4	US-09-205-258-1116	Sequence 1116, Ap	1236	86	3.4	484	3	US-09-276-197-9	Sequence 9, Appli
1164	88	3.5	452	4	US-09-914-259-34	Sequence 34, Appli	1237	86	3.4	553	3	US-09-249-697A-6	Sequence 6, Appli
1165	88	3.5	480	2	US-08-480-229C-10	Sequence 10, Appli	1238	86	3.4	553	3	US-09-363-316B-6	Sequence 6, Appli
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1167	88	3.5	771	4	US-09-784-358-14	Sequence 14, Appli	1240	86	3.4	553	4	US-09-981-649A-6	Sequence 6, Appli
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1454	82	3.2	77	4	US-09-857-815B-7	Sequence 7, Appl							
1455	82	3.2	78	4	US-09-857-815B-6	Sequence 6, Appl							
1456	82	3.2	78	4	US-09-857-815B-9	Sequence 9, Appl							
1457	82	3.2	79	4	US-09-857-815B-5	Sequence 5, Appl							
1458	82	3.2	79	4	US-09-857-815B-8	Sequence 8, Appl							
1459	82	3.2	80	3	US-08-663-191A-1	Sequence 1, Appl							
1460	82	3.2	80	4	US-10-138-158-17	Sequence 17, Appl							
1461	82	3.2	80	4	US-09-857-815B-35	Sequence 35, Appl							
1462	82	3.2	111	6	5514582-20	Patent No. 5514582							
1463	82	3.2	111	6	5514582-20	Patent No. 5514582							
1464	82	3.2	187	6	5256643-2	Patent No. 5256643							
1465	82	3.2	187	6	5256643-2	Patent No. 5256643							
1466	82	3.2	192	4	US-09-949-016-7062	Sequence 7062, Ap							
1467	82	3.2	232	4	US-08-450-482B-123	Sequence 123, App							
1468	82	3.2	319	4	US-08-835-279-2	Sequence 2, Appl							
1469	82	3.2	395	4	US-09-270-767-43034	Sequence 43034, A							
1470	82	3.2	399	4	US-09-252-991A-28974	Sequence 28974, A							
1471	82	3.2	420	1	US-08-391-259-2	Sequence 2, Appl							
1472	82	3.2	420	2	US-08-839-425-2	Sequence 2, Appl							
1473	82	3.2	452	4	US-09-540-236-3462	Sequence 3462, Ap							
1474	82	3.2	467	4	US-09-270-767-46608	Sequence 46608, A							
1475	82	3.2	470	4	US-09-578-063-69	Sequence 69, Appl							
1476	82	3.2	612	3	US-08-762-500-79	Sequence 79, Appl							
1477	82	3.2	650	1	US-08-325-071-56	Sequence 56, Appl							
1478	82	3.2	650	3	US-08-461-004A-56	Sequence 56, Appl							
1479	82	3.2	688	1	US-08-325-071-57	Sequence 57, Appl							
1480	82	3.2	688	3	US-08-461-004A-57	Sequence 57, Appl							
1481	82	3.2	830	5	PCT-US91-05059-2	Sequence 2, Appl							
1482	82	3.2	830	6	5378464-2	Patent No. 5378464							
1483	82	3.2	830	6	5378464-2	Patent No. 5378464							
1484	82	3.2	1104	4	US-09-981-953A-4	Sequence 4, Appl							
1485	82	3.2	1245	2	US-08-801-263A-6	Sequence 6, Appl							
1486	82	3.2	1245	3	US-09-102-248-6	Sequence 6, Appl							
1487	82	3.2	1245	4	US-09-367-764-6	Sequence 6, Appl							

ALIGNMENTS

RESULT 1

US-09-866-028-50

; Sequence 50, Application US/09866028

; Patent No. 5642360

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin

; APPLICANT: Botstein, David

; APPLICANT: Eaton, Dan

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Fillaroff, Ellen

; APPLICANT: Gerritsen, Mary

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul

; APPLICANT: Grimaldi, Christopher

; APPLICANT: Gurney, Austin

; APPLICANT: Hillan, Kenneth

; APPLICANT: Kijavlin, Ivar

; APPLICANT: Napier, Mary

; APPLICANT: Roy, Margaret

; APPLICANT: Tunas, Daniel

; APPLICANT: Wood, William

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; FILE REFERENCE: ACIDS ENCODING THE SAME

; FILE REFERENCE: P2548P1C1

; CURRENT APPLICATION NUMBER: US/09/866,028

; CURRENT FILING DATE: 2001-05-25

; Prior application data removed - consult PALM or file wrapper

; NUMBER OF SEQ ID NOS: 120

; SEQ ID NO 50

; LENGTH: 455

; TYPE: PRT

; ORGANISM: Homo Sapien

US-09-866-028-50

Query Match 100.0%; Score 2529; DB 4; Length 455;

Best Local Similarity 100.0%; Pred. No. 1.3e-218;

Matches 455; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MLHPETSPGRCHLLAVLLALGTTTWAEPQLOEQAPMAGNALNPKSFLLSLNRLRS 60

QY 61 WVQPPAADMRLDWSDSLQAQARAAALCGITPTSLASGLWRTTLQVGNWMLLPAGLASF 120

DB 61 WVQPPAADMRLDWSDSLQAQARAAALCGITPTSLASGLWRTTLQVGNWMLLPAGLASF 120

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DB 121 VEVVSLWFAEQRYSHRAGECARNATCTHYTQLVWATSSQLCGRHLCAGTATFAFVC 180

QY 181 AYSFGNWEVNGKTIIPYKGAWSCLCTASVSGCFKAWDHAGGLCEVPRNPCRMSQNHG 240

DB 181 AYSFGNWEVNGKTIIPYKGAWSCLCTASVSGCFKAWDHAGGLCEVPRNPCRMSQNHG 240

QY 241 RLNSTCHCHCPGGTGYCYQVRCSLQCVHGRFEEECSCVCDIGYGGAQCATKVHPPH 300

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Qy 301 TCDLRIDGDCFWVSSEADTYTARKMKCKQKGGVLAQIKSQKQVDILAFYLGRLETTNVT 360
Db 301 TCDLRIDGDCFWVSSEADTYTARKMKCKQKGGVLAQIKSQKQVDILAFYLGRLETTNVT 360
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Db 361 DSDPFRFWIGLTVTKTAKDSFRWATGHEQAFTSFAFGOPDNHGLVWL-SAAMGFGNCVEL 420
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Db 421 QASAAFNNDQCKTNRNYICQFAQEHISRWGPGS 455

RESULT 2

US-09-944-457-50
; Sequence 50, Application US/09944457
; Patent No. 6734288
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tomas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548PICI
; CURRENT APPLICATION NUMBER: US/09/944,457
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945

; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. 6734288ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. 6734288ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 50
; LENGTH: 455
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-457-50

Query Match 100.0%; Score 2529; DB 4; Length 455;
Best Local Similarity 100.0%; Pred. No. 1.3e-218;
Matches 455; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MLHPETSPGRGHLLVLLALLGTTTAAEVWPPQLOEQAPMAGALNRKESFLLLSLHNRLRS 60
Db 1 MLHPETSPGRGHLLVLLALLGTTTAAEVWPPQLOEQAPMAGALNRKESFLLLSLHNRLRS 60
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Db 61 WVOPPAADMRRLDWSDSLQAQARAALCGIPTPSLASGLWRTLVQGVNMQLLPAGLASF 120
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Db 121 VEVVSLWFAEGQRYSHAAGECARNATCTHTYTLQVWATSSQLGCGRHLCGAGTAEAFVC 180
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Db 181 AYSFGGNWEVNGKTIIPYKKGAWCSLCTASVSCFKAWDHAGGICEVPRNPCRMSCONHG 240
Qy 241 RLNISTCHCHCPGGTGRVCQVHGRFREECSCVCDIGYGAQCATKVHPFFH 300